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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

WATER RESOURCES

79. No significant impact on ground water or surface water quality is anticipated. Impacts on the aquatic environment would be minimal. Appropriate construction precautions would be taken to minimize disruption of bottom sediments and increased turbidity. Sediments excavated from the river bottom must be disposed of at approved sites. See the Section 404(b)(1) Evaluation on Pages EIS-35 to EIS-44 and Technical Report No. 6, "Natural Resources," for details. Provisions for stormwater drainage from the bridge to permit containment of toxic or hazardous material spills will be developed during the detailed design stage. Such plans will be developed in cooperation with the Minnesota Pollution Control Agency to meet requirements for bridge replacement certification under Section 401 of the Clean Water Act of 1977.

TRAFFIC SERVICE AND SAFETY

- 80. Alternatives 2A and 4 would retain the present substandard underpass (9'-5" vertical clearance) at the entrance to Sibley Park at the corner of Woodland Avenue and Park Lane. This underpass now provides direct access to Sibley Park, but not to the adjacent neighborhood except via the park. Alternative 3B would provide a standard 15-foot vertical clearance bridge between Woodland Avenue and Carney Avenue which would connect the street systems south and north of the tracks via Park Lane and West Third Street. Access to the park would be relocated to the west end of West Third Street at a point one block north of the present entrance.
- 81. The advantages of a new underpass with standard vertical clearances are significant. All types of vehicles, including fire trucks, would have access to the area at all times without potential delay due to blockage by train operations. The proposed Woodland Avenue underpass under Alternative 3B would avoid the circuitous route through the park to reach the northern portion of the Sibley Park neighborhood and would divert some neighborhood traffic from the more hazardous grade crossings. It would also provide a safe uninterrupted crossing for more pedestrians than other alternatives, particularly when coupled with a pedestrian underpass at Sibley Street. The principal disadvantage is that park traffic would be diverted from Park Lane, the traditional route, to West Third Street for one-half block. Slight modifications to the park road would be required to close the existing entrance and open the new one.
- 82. All alternatives would require closing Carney Avenue at the railroad tracks. Alternatives 3B and 4 would also close Sibley Street to all vehicles at the railroad, but Alternative 3B would provide a pedestrian underpass at that point, primarily to provide a safe crossing for school children. The extension of West Second Street to Hubbell Avenue under Alternatives 3B and 4 will also help limit additional travel to or from locations north of the tracks to only one or two additional blocks.

- 83. Some interruption of street traffic would be experienced during the erection of the new main track bridge over the East Sibley Park entrance at Woodland Avenue. For Alternatives 2A and 4, such disruption will be for brief, intermittent periods during critical construction operations. For Alternative 3B, it may be necessary to close the existing entrance for a construction season while the tracks are raised as part of the construction of the new bridge east of Woodland Avenue. Access to the northern portion of the Sibley Park neighborhood would be confined to grade crossings at Sibley Street, Hubbell Avenue, and Owatonna Street and to the Mound Avenue underpass during this period. Access to East Sibley Park would be primarily via Mound Avenue. Feasibility of an alternative temporary bridge at the existing entrance to avoid closure will be explored during the detailed design phase of the project.
- 84. Currently a significant number of hikers and walkers trespass on railroad property and cross the river on the main track bridge (M-1605). The higher embankment, if adequately fenced, and the pedestrian bridge over the river, which is proposed for all alternatives, should effectively eliminate this imposition and attendant hazard.

RAIL OPERATIONS AND SERVICE

- 85. Railroad operations would be affected by the horizontal distances traveled, the increased grade and elevation to be overcome, and the grade on storage tracks. East of the river, all alternatives would have essentially level storage tracks which is the desirable condition. Storage tracks west of the river under Alternatives 2A would more or less parallel the main track on a grade of 0.6 percent.
- 86. Under Alternative 2A, freight car storage track for the Honeymead operations would be reduced from the present 3300 feet to 2400 feet. While this is less than the calculated reasonable peal requirement of 3200 feet, it is sufficient for normal operations. Switching operations to the 1500 feet of track west of the river would be interrupted during the passage of through trains since the main track would be used for access to tracks west of the river. Alternative 3B would provide 3200 feet of freight car storage track for the Honeymead operations, essentially equal to the present 3300 feet; while storage under Alternative 4 would be reduced to 2700 feet.
- 87. To compare the operating efficiencies of the alternatives, operating costs and fuel consumption were calculated for simulated operations within the area affected by the proposed alterations. The comparison of these costs, based on 1980 price levels, is shown in Table C.

TABLE C

ESTIMATED INCREASES IN RAILROAD OPERATING
COSTS AND FUEL CONSUMPTION

	Annual Increa	ses over Present	Operations
		Alternative	
Item	2A, 2B	3A, 3B	4
Through train operating costs	\$8,300	\$ 8,300	\$8,300
Honeymead switching operations	49,000	21,900	12,300
Total Cost	\$57,300	\$30,200	\$20,600
Through train fuel consumption	7,800 gal.	7,800 gal.	7,800 gal.
Fuel consumption for Honeymead switching operations	8,010 gal.	6,430 gal.	<u>970</u> gal.
Total Fuel Consumption	15,820 gal.	14,230 gal.	8,770 gal.

⁽¹⁾ Annual cost, present operations, \$58,900.

- 88. Annual operating costs and energy consumption are lowest under Alternative 4, with Alternative 3B somewhat better than 2A. Differences among the alternatives in energy required for construction are too small to estimate by methods currently available.
- 89. Under all alternatives, minor adjustments in train operations, slow orders, changes in switching procedures, etc., would be required for track alterations and embankment construction. Alternative 3B would also likely require a runaround ("Shoofly") track to expedite construction of the new underpass construction.

LIST OF PREPARERS

The following people were primarily responsible for preparing this environmental impact statement.

Mr. Robert Anfang Mr. Merlin II. Berg Mr. George G. Brophy Mr. James J. Craig, Jr. Mr. Roger A. Bavis Mr. William G. Hohle, Jr. Ms. Ann Leviton

LIST OF PREPARERS (Continued)

		Name	Expertise	Experience	Role in Preparation of EIS
	K.	Mr. David Miller	Sociologist	2 years Research Assistant, Rural Sociology Department, University of Minnesota - 3 years Sociologist, St. Paul District, Corps of Engineers.	EIS Coordinator, reviewed contractors' documents, social/ economic impacts, alternative evaluations.
	¥.	Mr. Robert Penniman	Civil Engineer	10 years, Project Manager/Water Resources Projects, St. Paul District, Corps of Engineers.	Study Manager, contract administrator, reviewed technical and alternative evaluations.
	Ms. 1	Ms. Terry J. Pfutzenreuter	Archaeology	5 years, Archaeologist, Minnesota Historical Society; 6 months, Archaeologist, Corps of Engineers.	Reviewed and coordinated cultural resources technical report.
	Dr. 1	Dr. Henry Quade	Limnologist, Ecologist	10 years, Professor of Biology, Mankato State University, EIS studies; consultant to Minnesota Pollution Control Agency and County Boards.	Subconsultant, Natural Resources.
EIS-28	Mr. A	Amardo J. Romano	Engineer	28 years, Civil and Structural Engineering, Project Management and EIS Studies; Vice President, Edwards and Kelcey, Inc.	Consultant Principal-in-Charge, Civil Engineering.
	ž.	Robert P. Sands	Planner, Engineer	14 years, Land Use Planner, Transportation Engineering and EIS Studies, Edwards and Kelcey, Inc.	Consultant Staff, Alternative Evaluations, Transportation Engineering.
	¥	Dale Shaw	Engineer	20 years, Civil Engineering, Pro- ject Engr., District 7 Survey Engr. Minn. Dept. of Transportation.	Mn/DOT Coordinator, Civil Engineering.
	Ms.	Audrey Thomas	Archaeology	3 years Archaeologist, St. Paul District, Corps of Engineers.	Reviewed cultural resources technical report.
	¥.	Thomas E. Wetmore	Civil Engineer	28 years, Transportation Engin- eering, Project Management and EIS Studies, Edwards and Kelcey, Inc.	Consultant Project Engineer, Civil Engineering.

PUBLIC INVOLVEMENT

PUBLIC INVOLVEMENT PROGRAM

- 90. The study has been conducted by the St. Paul District, Corps of Engineers, with the Minnesota Department of Transportation functioning as a cooperating agency for the TH 169/60 and Main Street bridges. As required by guidelines of the Council on Environmental Quality, a scoping process was conducted as a part of the ongoing coordination and public involvement activities. A regular working cooperative arrangement has been maintained with the Cities of Mankato and North Mankato. The Chicago and North Western Transportation Company and the Chicago, Milwaukee, St. Paul and Pacific Railroad were contacted with reference to possible effects on railroad facilities and operations. Coordination with the other involved local, State, and Federal agencies was maintained by correspondence, briefings and the project newsletter. Direct working relationships were also maintained with private utility companies having facilities in the project area.
- 91. The views of the public were actively solicited throughout the course of the study. Individuals, groups and civic organizations, and governmental bodies were brought into the study process through a broadly-based public information program with regular communications on project matters.
- 92. Elements of the public information program included:
 - a. A local public information office
 - b. Periodic newsletters
 - c. News media coverage
 - d. Public information meetings
 - e. Interviews with citizens directly affected by potential property acquisitions
 - f. City Council and staff workshops
 - g. Presentations to interested civic organizations
- 93. The overall public information program covered the entire project, i.e., all three bridge crossings to be altered. Specific public information releases were prepared to deal with the three separate bridge locations as appropriate.

REQUIRED COORDINATION

94. Following completion of this draft supplement to the FEIS, the only coordination remaining will be: the securing of necessary permits from the Minnesota Department of Natural Resources, the Minnesota Pollution Control Agency and the Corps of Engineers for the construction of the bridges; and review and comment on responses to the draft supplement, including views expressed during the public hearing. In compliance with Section 404 of the Clean Water Act, a Section 404 Public Notice covering the Blue Earth River bridge relocations will be issued in conjunction with the EIS Public Notice for the CNW railroad bridges supplement. A Section 404 Public Notice covering the Minnesota River bridge relocations will be issued in conjunction with the EIS Public Notice for the TH 60/Main Street bridge supplement.

95. During construction, all of the agencies having direct concern with the work will have to be kept informed. A regularly scheduled series of progress meetings to which all concerned would be invited may prove to be most effective for this purpose.

STATEMENT RECIPIENTS

96. This Draft Supplement EIS is being sent to the following for review and comment:

Distribution List Federal, State and Local Agencies and Officials

United States Senators

Honorable David Durenberger - Minnesota Honorable Rudy Boschwitz - Minnesota

United States House of Representatives

Honorable Thomas Hagedorn - Minnesota Honorable Bill Frenzel - Minnesota

Honorable Albert H. Quie - Governor of Minnesota

Federal Agencies

United States Department of Interior
United States Fish and Wildlife Service, Field Office
United States Fish and Wildlife Service, Regional Office
Assistant Secretary for Program Policy
Acting Assistant Director, United States Geological Survey
United States Geological Survey, Conservation Division,
Area Water Power
Bureau of Indian Affairs
Heritage Conservation and Recreation Service
Office of Archaeology and Historic Preservation
Interagency Archaeological Services

United States Department of Transportation
Federal Highway Administration, St. Paul, Minnesota
Second Coast Guard District, St. Louis, Missouri
Federal Highway Administration, Homewood, Illinois

United States Department of Agriculture

Eastern Region Forest Service
United States Forest Service
Soil Conservation Service, River Basin Planning Branch
Soil Conservation Service, Minnesota State Conservationist

United States Department of Commerce
Deputy Assistant Secretary for Environmental Affairs
Economic Development Representative, Duluth, Minnesota
National Oceanic & Atmospheric Administration National Marine Fisheries Service

United States Department of Health and Welfare Director of Environmental Affairs Region V Environmental Office

United States Department of Housing and Urban Development Region V Environmental Clearance Officer

United States Department of Energy Federal Energy Regulatory Commission Division of NEPA Affairs Advisor on Environmental Quality

United States Environmental Protection Agency Region V Administrator

Advisory Council on Historic Preservation Executive Director

Minnesota State Agencies

Department of Natural Resources Office of Economic Opportunity Department of Agriculture Energy Agency Minnesota Historical Society Minnesota State Historic Preservation Office State Archaeologist Environmental Quality Board Environmental Quality Board, Citizen's Advisory Committee Minnesota Pollution Control Agency Minnesota State Planning Agency Minnesota State Planning Agency, Intergovernmental Planning Minnesota Department of Transportation Minnesota Senate Minnesota State House of Representatives Minnesota Environmental Education Board Minnesota Department of Economical Development Minnesota Department of Health, Division of Environmental Health Association Water Resources Board, Administrative Secretary, Minnesota Minnesota-Wisconsin Boundary Area Commission

Regional, County, Local Agencies

City of Mankato, Mayor
City of Mankato, Planning Director
City of Mankato, Director of Public Works
City of North Mankato, Mayor
City Engineer, North Mankato
Blue Earth County Engineer
Blue Earth County Board
Nicollet County Engineer
Nicollet County Board
Southern Minnesota Rivers Basin Commission
Region Nine Regional Development Commission

Libraries

Minneapolis Public Library
State Capitol Legislative Library
Environmental Conservation Library of Minnesota
St. Paul Public Library
Hill Reference Library
Metropolitan Council Library
University of Minnesota Library
University of Minnesota Agricultural Library
Mankato State College Library
Minnesota Valley Regional Library, Mankato
Minnesota Valley Regional Library, North Mankato

Newspapers, Media

The Waterways Journal, St. Louis, Missouri The St. Peter Herald Mankato Free Press Mankato State College, Mankato Reporter Gustavus Adolphus College, Gustavian Weekly

Interest Groups

Friends of the Earth, Minnesota Branch
Izaak Walton League of America
Izaak Walton League, Minneapolis Chapter
Ducks Unlimited
Minnesota Environmental Control Citizens Association
Minnesota Public Interest Research Group
Sierra Club, North Star Chapter
Minnesota League of Women Voters
Soil Conservation Society of America
Environmental Defense Fund, Inc.

National Audubon Society, North Midwest Region
National Audubon Society, North Midwest Representative
National Wildlife Federation
Minnesota Futurists Chapter of World Future
Environmental Resources
Water Resources Development Commission, River Bend
Association

Individuals and Companies

Chicago and North Western Transportation Co. Honeymead Products Company
H. Paul Friesma, Butler University
James Jack, Mankato State University
John Turtle, Route 1, Mankato
Mankato Citizens Telephone Co.
Midwestern Gas Transmission
Northern States Power Co.

PUBLIC VIEWS AND RESPONSES

Local interests and various governmental agencies provided through public meetings, by reports, and through correspondence, their views on the desired objectives of the project. Summarized below are the expressed public views and the project responses.

Views

Responses

a. Provide flood protection.

Bridge alterations proposed herein will complete the flood control project thus providing protection against the Standard Project Flood.

- b. Restrict property taking to a minimum.
- The negative effects of possible residential and business displacements were accorded thorough investigation.
- c. Maintain or improve access between north and south Sibley Park neighborhoods.
- Underpass possibilities were examined carefully for each considered alternative.
- d. Provide safety for school children.

Any contemplated changes in existing crossings were scrutinized carefully and efforts were made to make all necessary crossings more safe.

- e. Improve access to Sibley Park from Park Lane to reduce traffic on Mound Avenue.
- f. Maintain rail service to Honeymead plant.
- g. Minimize adverse aesthetic effects due to grade raise.

No material change in traffic patterns or volume on Mound Avenue is foreseen under any of the alternatives.

Consideration of all alternatives recognized the significant economic importance of the Honeymead plant and the need for efficient rail service thereto.

In all alternatives considered, grade raises in residential areas were kept at a level consistent with acceptable engineering criteria.

SECTION 404(b)(1) EVALUATION FLOOD CONTROL, MINNESOTA RIVER, MINNESOTA MANKATO-NORTH MANKATO-LE HILLIER BRIDGE MODIFICATIONS

The following is an evaluation of the proposed construction and fill activity in accordance with the requirements of Section 404 of the Clean Water Act of 1977 (33 U.S.C. 1344).

1. PROJECT DESCRIPTION

This evaluation describes the proposed bridge relocations for the flood control project at Mankato-North Mankato-Le Hillier, Minnesota, with emphasis on construction and fill activities that affect navigable waters in the project area.

Fill activities are associated with the following project features:

Construction of replacement bridges for the Highway 169 and the Chicago and Northwestern Railroad Bridges over the Blue Earth River, and for the Trunk Highway 60 (Main Street) Bridge over the Minnesota River.

a. Description of the proposed discharge of dredged or fill materials.

(1) General characteristics of material - Materials to be used as fill in the various stages of construction activities are classified as concrete, pervious fill, impervious fill, filter layer, and riprap. The pervious fill, consisting of sands and gravels available from local pits, would be used for fill placed under water. The impervious fill would be used for shaping the riverbank above water. The impervious fill would be clayey material obtained from borrow areas in the higher ground along the river valley. No organic material will be permitted in either the pervious or impervious fill. The filter layer and riprap would be coarse granular and quarried rock materials placed on the finished slopes for erosion protection. Bridge reconstruction requires placement of concrete bridge piers in the river. Cofferdams constructed out of steel sheeting would be utilized to place the new bridge piers. A description of the construction activities associated with each of the bridge relocations is presented below.

The following fill activities would occur at the new Trunk Highway 60 (Belgrade/Mulberry) Bridge over the Minnesota River:

Construction of temporary cofferdams for pier footings.

Install piling, concrete footings, and concrete shafts for piers 1 and 2.

Backfill with washed sand and gravel over pier footings (source of fill from Minnesota Department of Transportation (MN/DOT) approved borrow sites).

Riprap over washed sand and gravel at pier locations to approximate elevation 748, or temporary cofferdams left in place to elevation 748.

The following fill activities would occur at the Chicago and Northwestern Transportation Company Bridges and pedestrian walk over the Blue Earth River:

Placement of abutment piling, footings, walls, and wing walls.

Placement of riprap on slopes.

Construct temporary cofferdams for pier footings.

Install piling, concrete footings, and concrete shafts for all piers.

Backfill with washed sand and gravel behind abutment walls and over pier footings (source of fill from MN/DOT approved borrow sites).

Riprap over washed sand and gravel at pier location to approximate elevation 755, or temporary cofferdams left in place to elevation 755.

The following fill activities would occur at the TH 169 and 60 Bridge over the Blue Earth River:

Furnish and install abutment piling.

Remove and replace riprap on slopes.

Construct temporary cofferdams for pier footings.

Install piling, concrete footings, and concrete shafts for piers 1 and 2.

Backfill with washed sand and gravel behind abutment walls and over pier footings (source of fill from MN/DOT approved borrow sites).

Riprap over washed sand and gravel at pier locations to approximate elevation 755, or temporary cofferdams left in place to elevation 755.

(2) Quantity of material proposed for discharge - The approximate quantities of materials involved in river construction (although not all would be placed below normal high water mark) are as follows for each bridge relocation:

The Belgrade/Mulberry Bridge requires the following fill materials and quantities:

Steel Sheeting - Cofferdams

Selected Backfill - Piers

Steel H-Piling - Piers

Concrete - Piers

Riprap Slope Protection - Piers

250 tons
800 cubic yards
4,800 linear feet
2,200 cubic yards
200 cubic yards

The railroad bridge modification requires the following till materials and quantities:

Steel Sheeting - Cofferdams

Selected Backfill

2,000 cubic yards

Steel H-Piling

11,200 linear feet

Concrete - Piers

2,000 cubic yards

Concrete - Abutments

400 cubic yards

Riprap Slope Protection

4,300 cubic yards

The TH 169 and 60 Bridge over the Blue Earth River requires the following fill materials and quantities:

Steel Sheeting - Cofferdams	140 tons
Selected Backfill	1,500 cubic yards
Steel H-Piling	12,000 linear feet
Concrete - Piers	1,400 cubic yards
Concrete - Abutments	700 cubic yards
Riprap Slope Protection	3,200 cubic yards

(3) Source of material - Backfill for around bridge piers would be obtained from Minnesota Department of Transportation approved borrow sites. Sand, gravel, and quarried rock used in the riprap and filter layer source obtained from local pits. Concrete would be purchased from local commercial sources.

b. Description of the proposed disposal sites for fill material

- (1) Location Fill activities are associated with proposed project works located between miles 109 and 104 on the Minnesota River and on the lower l-mile reach of the Blue Earth River.
- (2) Type of disposal sites The river valley in the project area is composed mostly of sand. Fill areas would be along the shore and, for the bridge piers, in the river.
- (3) Method of discharge Fill will be placed with normal construction equipment such as bulldozers and cranes equipped with buckets.
- (4) When will disposal occur? The bridge alterations are scheduled to begin by spring 1983 and should be completed by fall 1984.
 - (5) Projected life of fill sites The life of the project is 100 years.
- (6) <u>Bathymetry</u> The river has been channelized and consists mostly of a shifting sand bottom. About 10 feet deep at normal water level, the river increases to about 30 feet for the design flood.

2. PHYSICAL EFFECTS (40 CFR 230.4-1(a))

- a. Potential destruction of wetlands effects on (40 CFR 230.4-1(a)(1)(i-vi))
- (1) Foodchain production Because of the existing poor water quality, the shifting sand bottom, and previous channelization work that has already degraded the aquatic environment, the proposed work should not have an appreciable effect on foodchain production.

In general, the production of algae and aquatic invertebrates is inhibited in the project area by excessive silt, which reduces light penetration and destroys the utility of rocky substrate as invertebrate habitat.

- (2) General habitat Because the channelized river provides little habitat value, there would be little effect on aquatic or terrestrial species. Temporary effects of increased siltation during the short term of project construction would be harmful to aquatic biota, especially the algae and invertebrates which form the fishery forage base. There should be very little long-term impact upon river biota because the base flow characteristics will not be modified.
- (3) Nesting, spawning, rearing, and resting sites for aquatic or land species Essentially no nesting or spawning sites are available in the project area. Some aquatic species such as mollusks and benthic invertebrates would be affected by silting and direct placement of fill material. Long-term effects on aquatic and land species would be minimal, however.
- (4) Those areas set aside for aquatic environment study or sanctuaries or refuges Not applicable. No such areas are located within the area of project influence.
- (5) <u>Natural drainage characteristics</u> The project would not alter the natural drainage characteristics of the area.
- (6) Sedimentation patterns Sedimentation patterns are not expected to be changed because the large ambient sediment load and the base flow characteristics of the river channel will not be changed.
- (7) <u>Salinity distribution</u> No salinity parameters are applicable to the project.
- (8) Flushing characteristics Base or flood flow characteristics of the river channel will not be changed by the proposed fill activities.
- (9) <u>Current patterns</u> Base or flood flow characteristics of the river channel will not be changed.

- (10) Wave action, erosion, or storm damage protection Fill and riprap activities associated with the project would protect the riverbank from erosion by normal water flow and from high energy storm flows.
- (11) Storage areas for storm waters and floodwaters Fill activities will not affect storage areas for storm waters and floodwaters.
- (12) Prime natural recharge areas Groundwater and prime natural recharge areas are not expected to be affected by fill activities.

b. Impact on water column (40 CFR 230.4-1(a)(2))

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- (1) Reduction in light transmission Increased turbidity during and immediately after construction would temporarily reduce light transmission.
- (2) <u>Aesthetic values</u> Fill activities would have little effect on the aesthetics of the water column because of the high ambient sediment load in the river.
- (3) Direct destructive effects on nektonic and planktonic populations Direct destruction of these populations would be minor due to the existing poor water quality and poor spawning habitat in the construction area. In general, the production of algae is inhibited in the project area by excessive silt, which reduces light penetration and destroys the utility of river habitat.

c. Covering of benthic communities (40 CFR 230.4-1(a)(3))

- (1) Actual covering of benthic communities In general, excessive silt, which destroys the utility of the substrate as invertebrate habitat, inhibits the production of aquatic invertebrates in the project area. Some aquatic invertebrate populations are apparent in the project area. Those animals dwelling directly in the path of the fill and riprap activities would be covered and thus eliminated by project construction.
- changes in community structure or function Fill and riprap activities would cover and eliminate some benthic communities. This would be a short-term adverse impact until "seed" organisms from similar habitats in the river could colonize the new substrate. Riprap activity would alter the substrate from mostly sand and silt to the riprap rock, allowing organisms which are adapted to a rock substrate to colonize the riprap area. This new habitat would increase the diversity of the number of species because of the increased surface area. Total community function is limited by the overall poor quality of the aquatic ecosystem.

d. Other effects (40 CFR 230.4-1(a))

(1) Changes in bottom geometry and substrate composition - Riprap would cover the existing uneven, sandy surface of the riverbank with a flat surface of rocks with slopes of 1 vertical to 2-1/2 or 3-1/2 horizontal. Bridge piers would cover and replace the existing surface with a concrete pier stretching from the river bottom to above the waterline.

- (2) Water circulation Base or flood flow characteristics of the river channel will not be changed by the project.
 - (3) Salinity gradients Not applicable.
- (4) Exchange of constituents between sediments and overlying water with alterations of biological communities Fill activities would cover the existing fine-grained sandy sediments. The new condition with the fill would not be a probable habitat for organisms which have the ability for chemical exchange between constituents in the sediments and overlying water.
- 3. CHEMICAL BIOLOGICAL INTERACTIVE EFFECTS (40 CFR 230.4-1(b))
 - a. Does the material meet the exclusion criteria?

The exclusion criteria state that dredged or fill material may be excluded from this evaluation if it is composed predominantly of sand, gravel, or any other naturally occurring sedimentary material with particle sizes larger than silt, characteristic of and generally found in areas of high current or wave energy such as streams with high bedloads or coastal areas with shifting bars and channels, or when the material proposed for discharge is taken from a site sufficiently removed from sources of pollution to provide reasonable assurance that such material has not been contaminated by such pollution. The fill material to be used for this project would meet these standards. Fill material would consist of sand, quarried rock, fieldstone, or any other naturally occurring sedimentary or glacial material with p...ticle sizes larger than silt, generally found in areas having high current or wave energy. The fieldstone would be of glacial origin. The fill material would be obtained from MN/DOT approved borrow sites. Concrete would be obtained from commercial sources.

- 4. DESCRIPTION OF SITE COMPARISON (40 CFR 230.4-1(c))
 - a. Total sediment analysis (40 CFR 230.4-1(c)(1))

Sediment analysis performed in the study area shows that, except for high lead counts downstream of the Main Street Bridge, the values for heavy metals are similar to those found in the Minnesota River and do not represent a problem. The high lead content is due to storm sewer runoff in that area. One sample site near the Main Street Bridge also revealed the presence of PCB's (6 ug/kg). Any polluted sediments which are excavated will be placed in approved disposal sites and not returned to the river. Clean sand, gravel, and other material would be used as fill; and use of this material would present no major environmental impact in regard to concentration differences of critical constituents between the fill site and the fill material.

b. Biological community structure analysis (40 CFR 230.4-1(c)(2))

The composition of the biological community was sampled in the study area. The insect association is generally representative of a warm water lotic environment but is limited due to periodic siltation. The clam and fish populations in the area are also limited. The existing water quality is rather poor, while a shifting sand bottom and previous channelization work have degraded the aquatic environment. The non-aquatic nature of the fill material is unlikely to be a factor in the biological community structure at the fill sites.

5. REVIEW APPLICABLE WATER QUALITY STANDARDS

a. Compare constituent concentrations

The water quality of the Minnesota River study area is rather poor, with high turbidity and bedload movement at certain times of the year. The Minnesota River study area (including parts of tributaries) is classified as 2B fisheries and recreation and 3B industrial consumption. The constituent concentrations of the fill material are related to the source of the fill material. All fill material would be clean gravel, sand, rock, or concrete.

b. Consider mixing zone

The seepage water from the cofferdam would be pumped back into the river. Because the seepage water would be essentially the same as the existing river water, minor impacts are anticipated and consideration of the mixing zone is not applicable.

c. Will fill operation be in conformance with applicable standards?

According to the criteria outlined in Minnesota State Regulations, Minnesota Pollution Control Agency WPC 14, the project would not affect the river's ambient quality.

6. SELECTION OF DISPOSAL SITES (40 CFR 230.5) FOR FILL MATERIAL

a. Need for the proposed activity

The bridges have to be modified to pass the design standard project flood.

b. Alternatives considered

Alternatives other than the placement of fill are rather limited. Bridge removal with no replacement is neither acceptable nor practical; therefore, pier construction and backfilling is needed, which requires the placement of a cofferdam. The steel sheetpile cofferdam, concrete bridge piers, riprap, and clamshell placement of fill material are alternatives that would minimize turbidity and help reduce future water quality impacts.

c. Objectives to be considered in discharge determination (40 CFR 230.5(a))

(1) Impacts on chemical, physical, and biological integrity of aquatic ecosystem (40 CFR 230.5(a)(1)) - Due to their clean nature, fill activities would not have a significant impact on the chemical, physical, or biological properties of the aquatic ecosystem. Fill activities would not alter the temperature, flow rate, or other physical parameters of the river. Fill activities would not have a significant impact on the biological integrity of the aquatic ecosystem. The runoff from the decks of the constructed bridges, resulting from precipitation events or spills, would not drain directly into the river but would be routed to points on land to the storm sewer system where it would be possible to contain the runoff if necessary. (A more detailed description of this impact is presented in the Environmental Impact Statement.)

- (2) Impact on foodchain Because of the existing poor water quality, the shifting sand bottom, and previous channelization work that has already degraded the aquatic environment, the proposed work should have no effect on foodchain production. In general, excessive silt currently inhibits the production of algae and aquatic invertebrates in the project area.
- (3) Impact on diversity of plant and animal species Biological diversity is fairly low in the fill area of the project. As a result, fill activities are not expected to have a significant impact on plant and animal diversity.
- (4) Impact on movement into and out of feeding, spawning, breeding, and nursery areas Habitat in the fill area is not conducive for such activities. Fill activities are not expected to have a significant impact on this movement.
- (5) Impact on wetland areas having significant functions of water quality maintenance No wetland areas with this function are near the fill activities of the project area.
- (6) Impact on areas that serve to retain natural high waters or flood-waters No natural floodwater retaining areas of significant size are in the project area.
- (7) Methods to minimize turbidity Construction below the normal high water level would be accomplished during low flow periods to minimize turbidity. Using steel sheet piles and making the cofferdams as small as possible yet still able to provide sufficient construction work area would also reduce turbidity. The use of clean fill material would minimize impacts on aquatic organisms and reduce effects on water quality parameters.
- (8) Methods to minimize degradation of aesthetic, recreational, and economic values The cofferdam would be a temporary fill activity with short-term minor aesthetic and recreational impacts. The altered bridge piers would have aesthetic, recreational, and economic impacts similar to the existing conditions, and these would be considered minor.
- (9) Threatened and endangered species No Federal or State threatened or endangered species would be affected by the proposed fill activities.
- (10) Other measures that avoid degradation of aesthetic, recreational, and economic values of navigable waters The fill portions of the project would have no significant impacts on aesthetic, recreational, or economic values of the navigable waters.
 - d. Impacts on water used at proposed fill sites (40 CFR 230.5(b) (1-10))
- (1) <u>Municipal water supply intakes</u> The fill sites are not near any public water supply intakes.

- (2) Shellfish The fill sites are not in an area of shellfish production.
- (3) Fisheries No significant fish habitat would be affected by the fill activities.
- (4) <u>Wildlife</u> During construction, equipment associated with the placement of fill would temporarily disturb some wildlife.
- (5) Recreation activities Water-related recreation activities are not important in the project area.
- (6) Threatened and endangered species No Federal or State threatened or endangered species are located in the project area.
- (7) Benthic life In general, benthic life is inhibited in the project area by excessive silt, which destroys the utility of the substrate as benthic habitat. However, fill activities would cover any benthic life existing at the fill sites. This would be a short-term adverse impact because recolonization would occur.
 - (8) Wetlands Wetlands would not be affected by fill activities.
- (9) Submersed vegetation The fill sites do not contain a significant population of submersed vegetation.
- (10) Size of disposal site The size of the disposal site would have minor environmental impacts in the project area. In addition, the disposal sites are the smallest possible that still provide required construction space.
 - (11) Coastal Zone Management programs (40 CFR 230.3(e)) Not applicable.
 - e. Considerations to minimize harmful effects (40 CFR 230.5(c)(1-7))
- (1) Water quality criteria According to the criteria outlined in Minnesota State Regulations, Minnesota Pollution Control Agency WPC 14, the project would not affect the river's ambient quality.
- (2) Alternatives to open water fill There are no practical alternatives to the fill required to accomplish the bridge modifications.
- (3) Physical characteristics of alternative fill sites The flood control project, as designed, requires modifications to the bridges. Alternatives are not compatible with the project.
 - (4) Ocean dumping Not applicable.
- (5) Covering contaminated fill material with cleaner material All fill material would be clean.

- (6) Methods to minimize effects of runoff from confined areas on the aquatic environment All fill material is clean, and no confined areas other than the cofferdams would be utilized.
- (7) Coordinate potential monitoring activities at the fill site with EPA - Because of the clean nature of the fill material, no monitoring activities are planned.
- 7. STATEMENT AS TO CONTAMINATION OF FILL MATERIAL IF FROM A LAND SOURCE (40 CFR 230.5(d))

The fill material would be commercially purchased and would consist of clean rock, gravel, sand, and concrete. Minnesota Department of Transportation approved borrow sites would be used.

8. DETERMINE MIXING ZONE

Determination of a mixing zone is not applicable. Because the discharged seepage water would be of the same quality as the receiving water, no significant impacts are expected. The seepage water discharge may cause some increased turbidity, but this impact would be minor.

Date

WILLIAM W. BADGER Colonel, Corps of Engineers District Engineer

INDEX REFERENCES AND APPENDIXES (Alternative 3B, CNW over Blue Earth River)

Subjects	Environmental Impact Statement	Main Report Report Appendixes (References and Technical Reports Incorporated) (References Incorporated)
Affected Environment	pp., EIS-15,17	Frontispiece Tech. Reports 1-6 pp. 8-23
Air Quality	p. EIS-5	pp. 19,45,50,57
Alternatives	pp.EIS-9-15	pp. 24-26, 28-36 Appendix A
Areas of Controversy	p. EIS-3	
Comparative Impacts of Alternatives	pp.EIS-15,16	pp. 36-42, 60-62
Costs	pp. EIS-3,16, 26	pp. 38,41-42,46,47, Appendix B 52-53,58,59,61, 62
Displacements	pp. EIS-16,17, 21-22	pp. 39,40,44,49,55, Tech. Report 4 61,62
Energy	pp. EIS-25-26	pp. 38,45,51,57
Environmental Effects	pp. EIS-20-26	pp. 36-41,43-62 Tech. Reports 1-6
Historic Properties	pp. EIS-4,18, 22-23	pp. 22-23,45,50,56 Tech. Report 5
Implementation Responsibilities	p. EIS-13	pp. 46-47,52-53, Tech. Reports 1-6 58-59
List of Preparers	pp. EIS-27-28	
Major Conclusions and Findings	p. EIS-3	pp. 60-63
Mitigation Requirements	pp. EIS-13-14	pp. 46,52,58
Need for and Objectives of Action	pp. EIS-8-9	pp. 1,6-7,26

EIS-45

INDEX REFERENCES AND APPENDIXES (Continued)

Subjects	Environmental Impact Statement	Main Report Report Appendixes (References and Technical Reports Incorporated) (References Incorporated)
Neighborhoods	pp. EIS-17, 20-21	pp. 9-10,37-38 Tech. Report 4 43-44,49-50, 55-56,60-62
Noise	pp. EIS-18-19, 23	pp. 18-19,45, Tech. Report 3 50,56
Parks and Recreation	pp. EIS-18,22	pp. 22,37,45, Tech. Report 4 50,56
Planning Objectives	p. EIS-9	pp. 7,26
Plans Considered in Detail	pp. EIS-11-14	pp. 42-62 Appendix A
Plans Eliminated from Further Study	pp. EIS-9-11	pp. 24-26,29-31
Plan, Profile and Section Drawings		p. 32 Appendices A,E
Public Concerns	p. EIS-8	p. 7 Appendix C
Public Involve- ment, Views and Responses	pp. EIS-29-34	pp. 2,7,47-48, Appendix C 53-54,59
Rail Operations and Service	pp. EIS-20, 25-26	pp. 10,17,27,37-38, 44,49,55-56,61-62
Recipients of EIS	pp. EIS-30-33	· · · · · · · · · · · · · · · · · ·
Relationship to Environmental Requirements	pp. EIS-4-5	
Required Coordination	p. EIS-29	
Significant Concerns	pp. EIS-17-20	pp. 5,60 Tech. Reports 2-6
Study Authority	p. EIS-8	pp. 1-2
Summary	pp. EIS-3-4	

INDEX REFERENCES AND APPENDIXES (Continued)

Subjects	Environmental Impact Statement	(References and	Report Appendixes d Technical Reports erences Incorporated)
Tentatively Selected Plan	p. EIS-14	p. 63	
Tiering	p. EIS-4		
Traffic Service and Safety	pp. EIS-19-20, 24-25	pp. 17,27,37-39, 44-46,50-51,56-57 60-62	Tech. Report 1
Unresolved Issues	pp. EIS-3-4		Appendix B
Utilities	pp. EIS-12,22	pp. 23,35-56, 40-41,45,51,57	
Vegetation and Wildlife	p. EIS-17	pp. 21-22,43	Tech. Report 6
Water Resources	pp. EIS-14,19, 24,35-44	pp. 21-22,43,48,54	Tech Reports 2,6
Without Conditions	p. EIS-11	pp. 24-26	 ·

FLOOD CONTROL .

MINNESOTA RIVER, MINNESOTA

MANKATO-NORTH MANKATO-LE HILLIER

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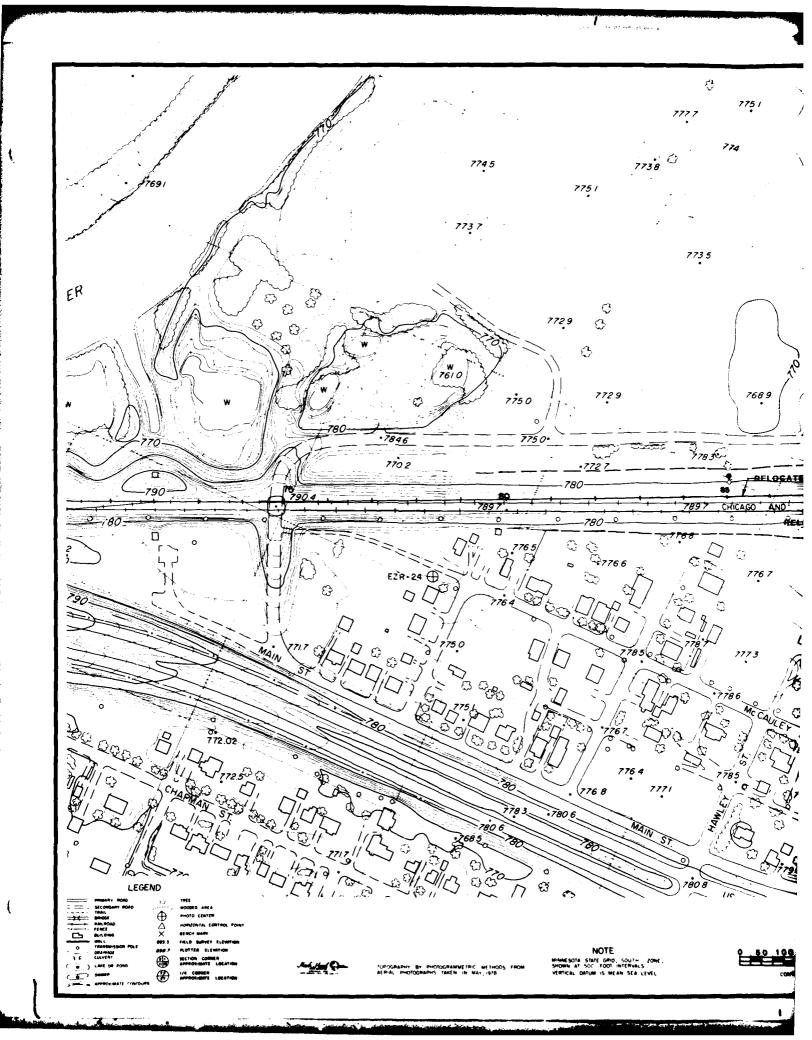
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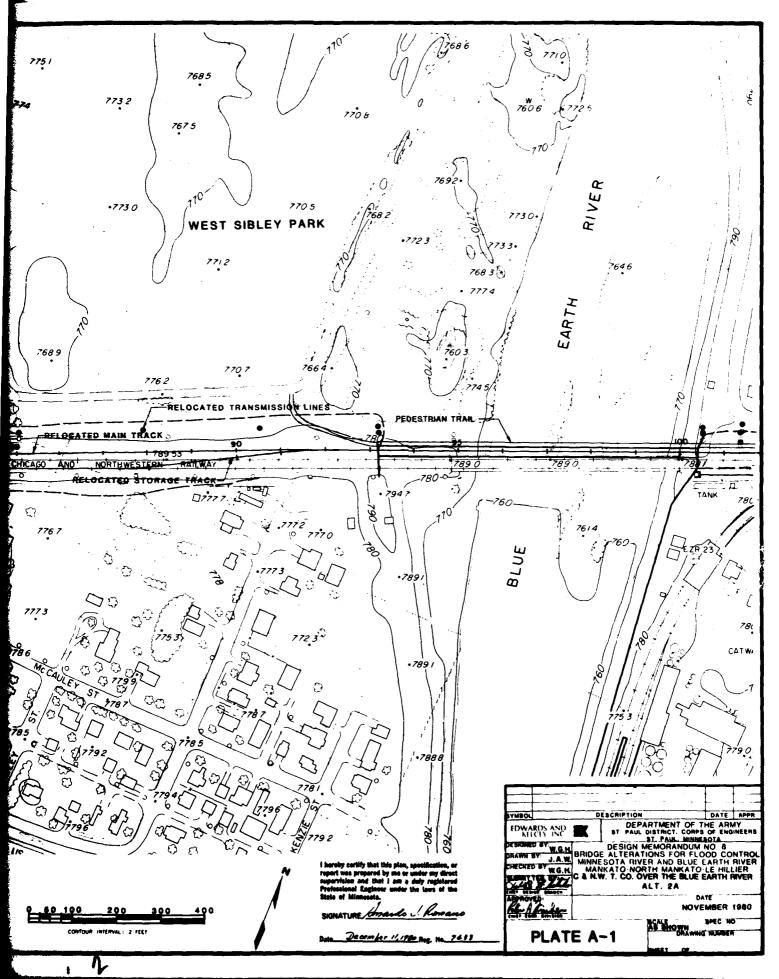
APPENDIX A

PLANS, PROFILES, AND TYPICAL CROSS SECTIONS

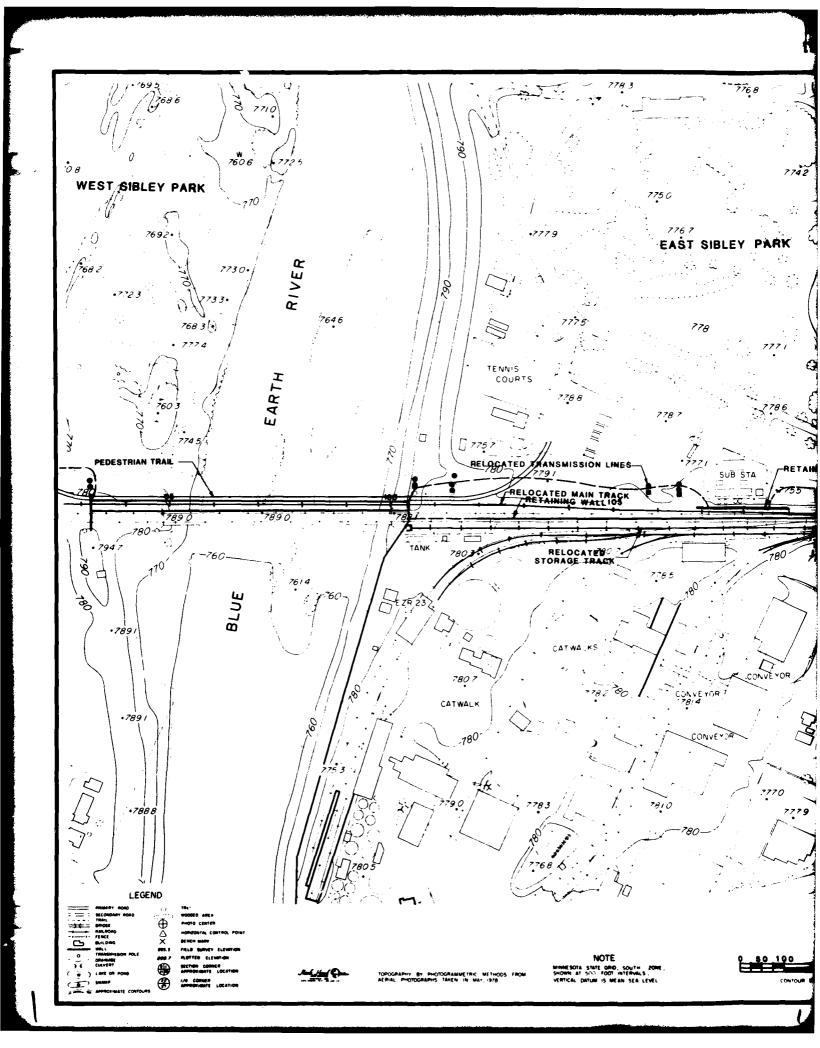
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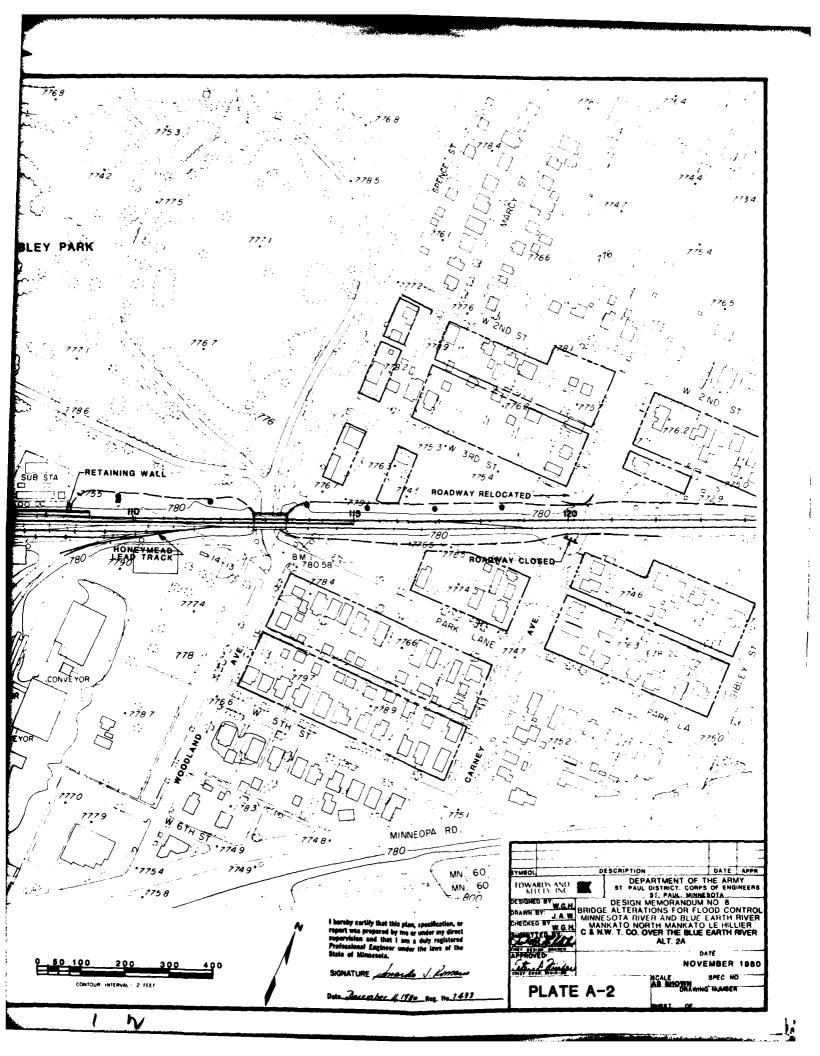
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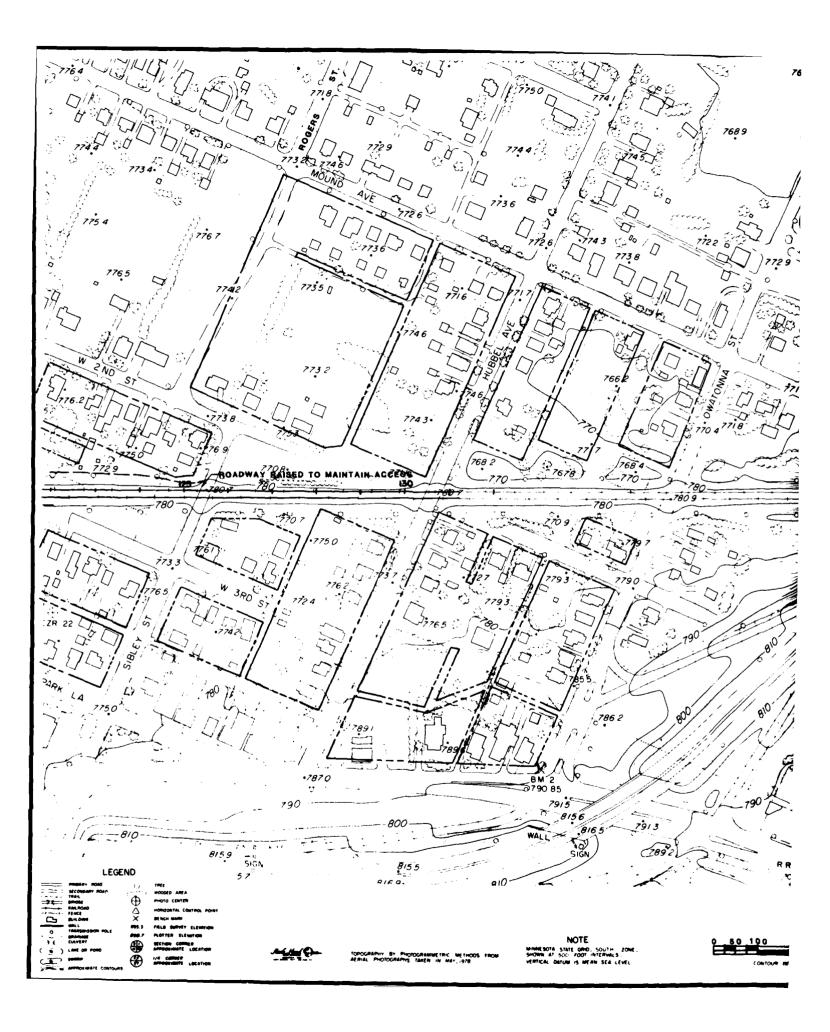


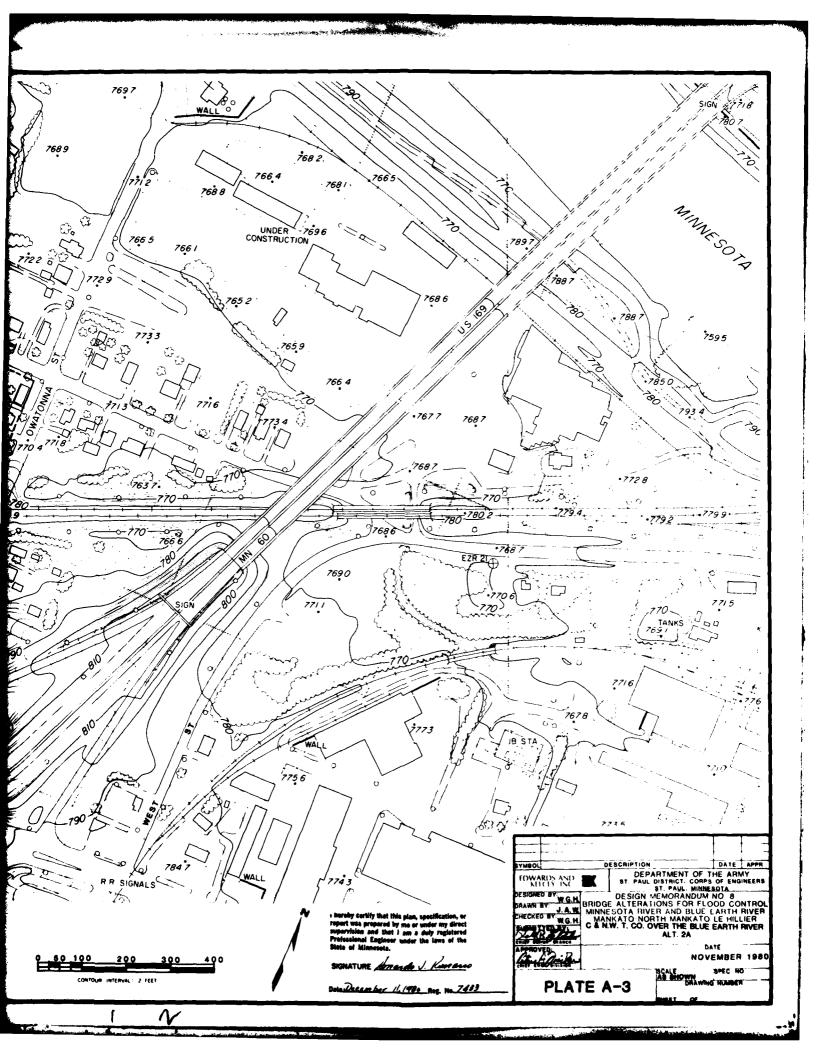


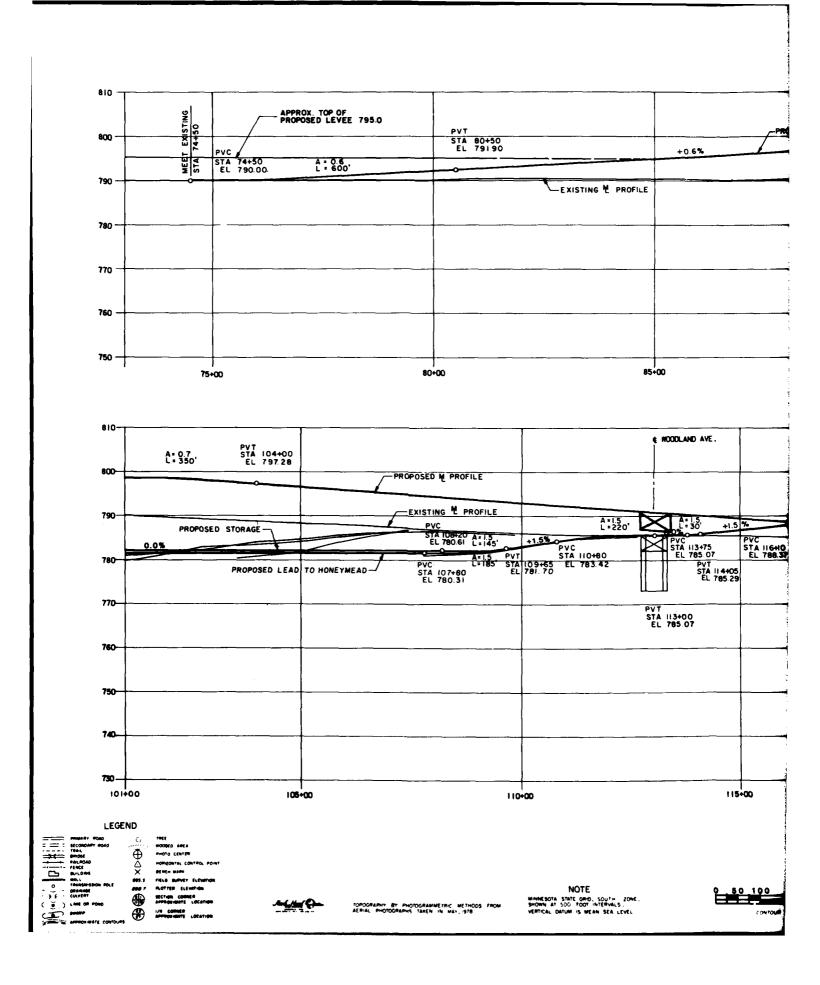
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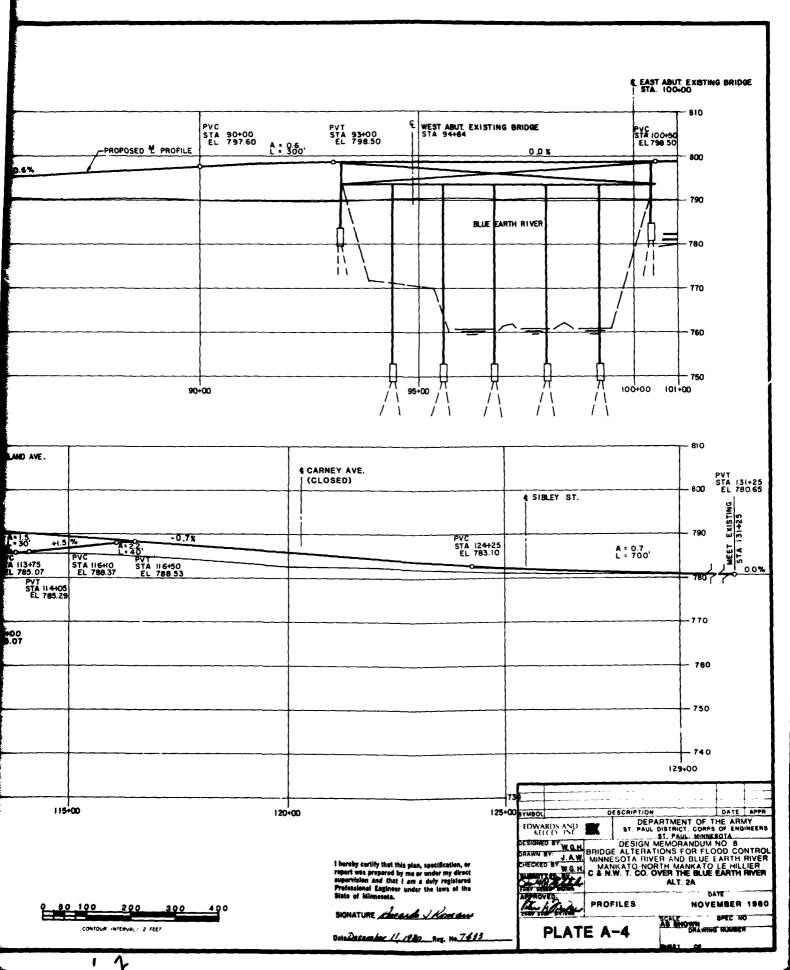


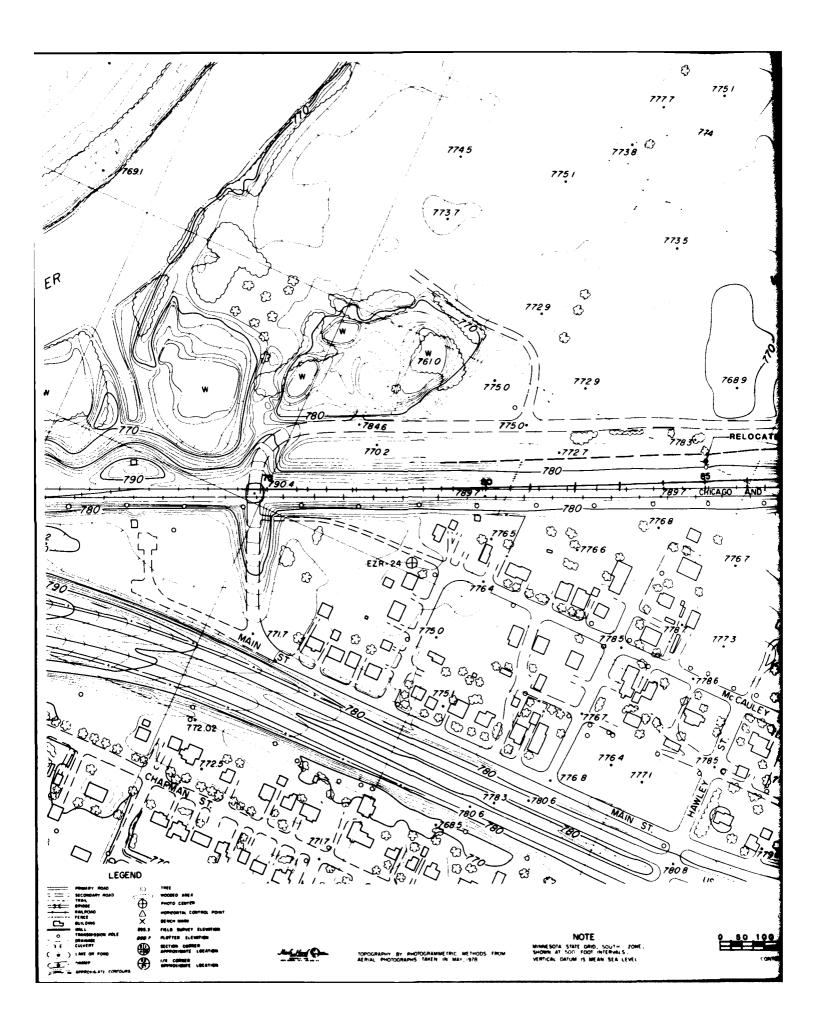


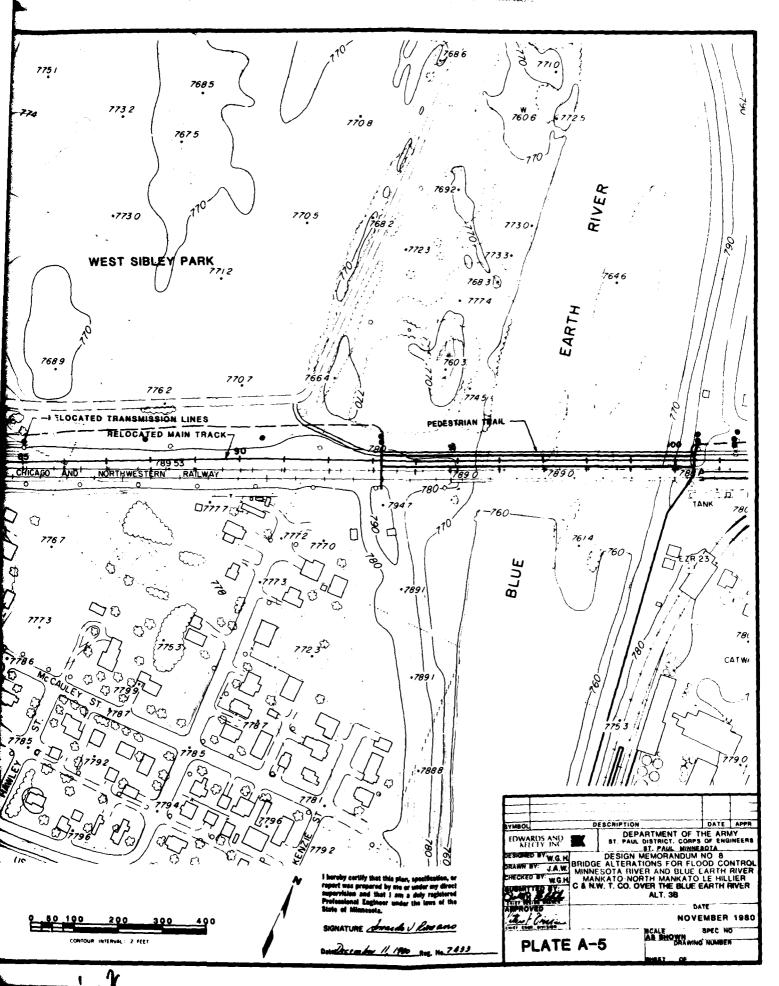


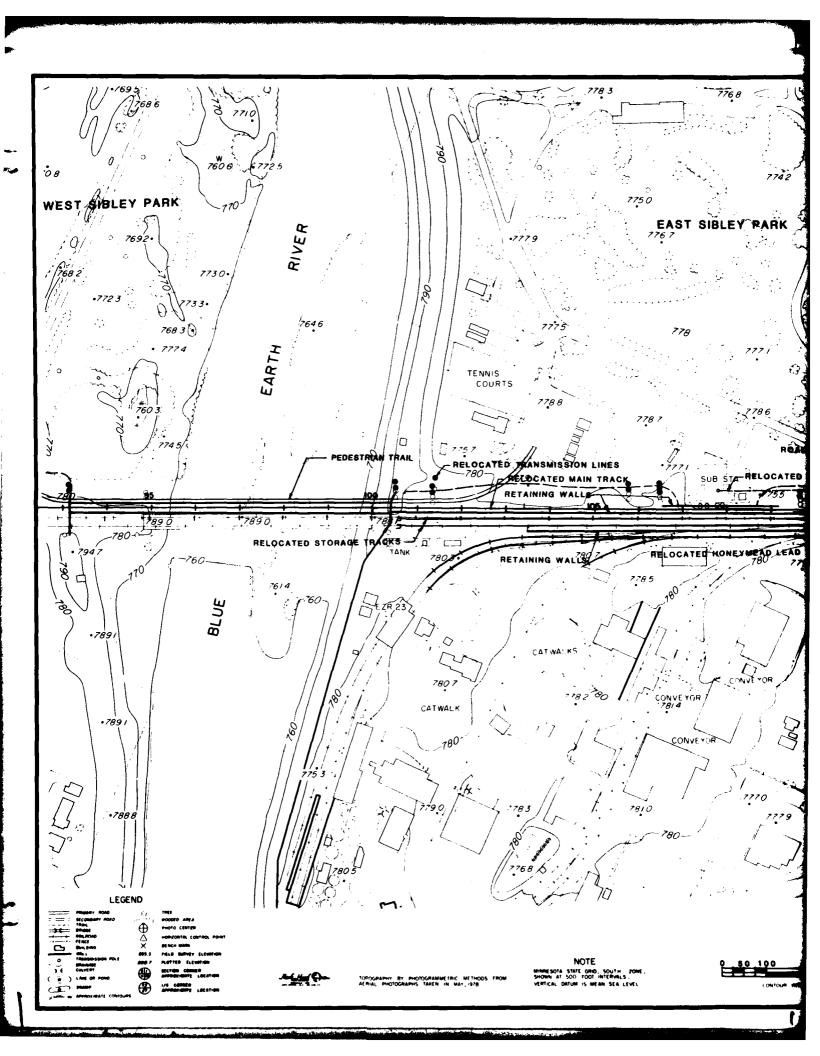


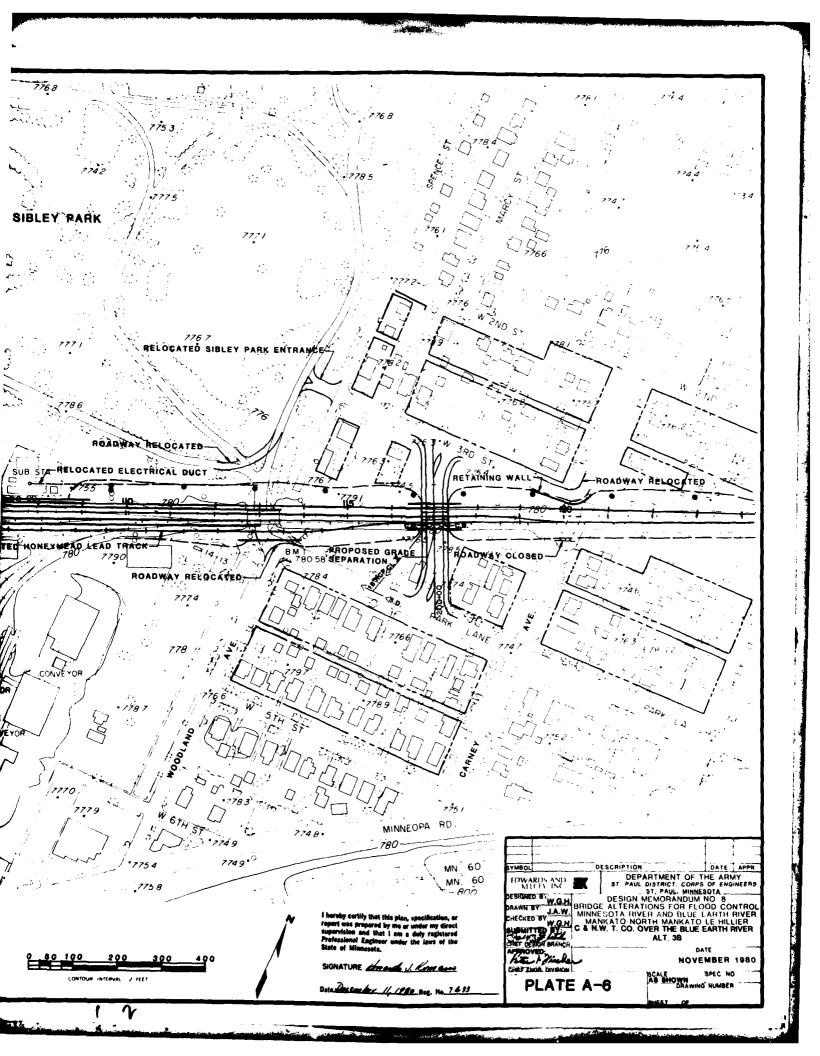


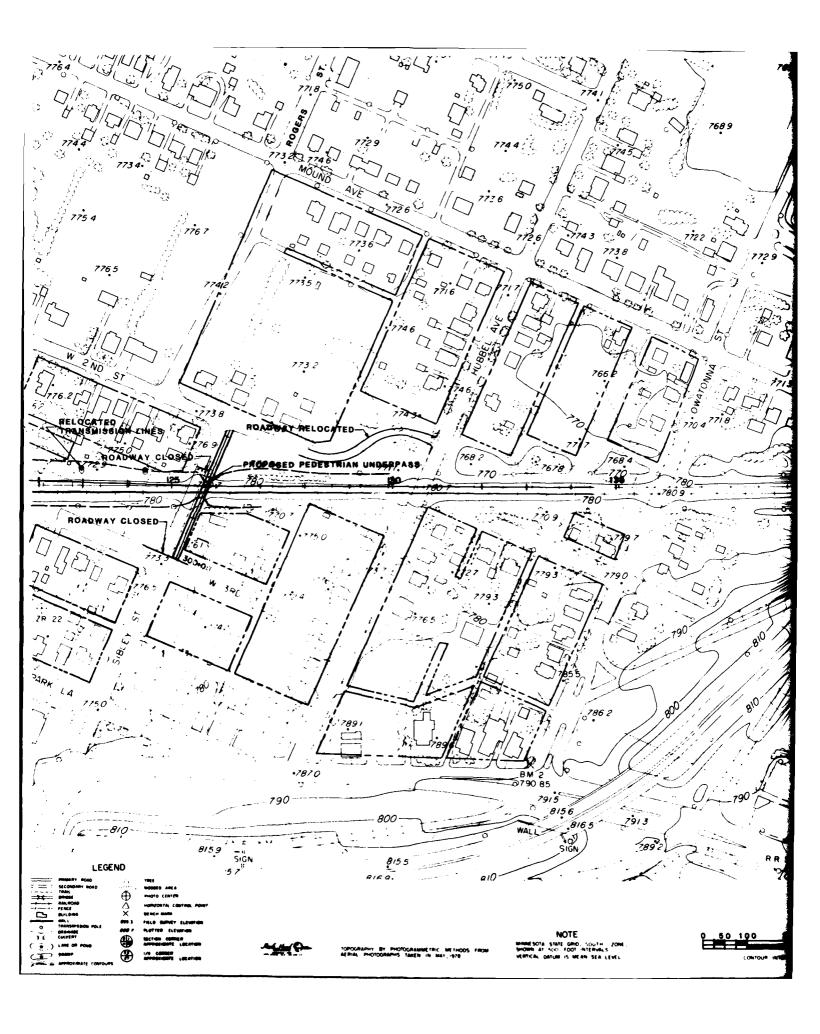


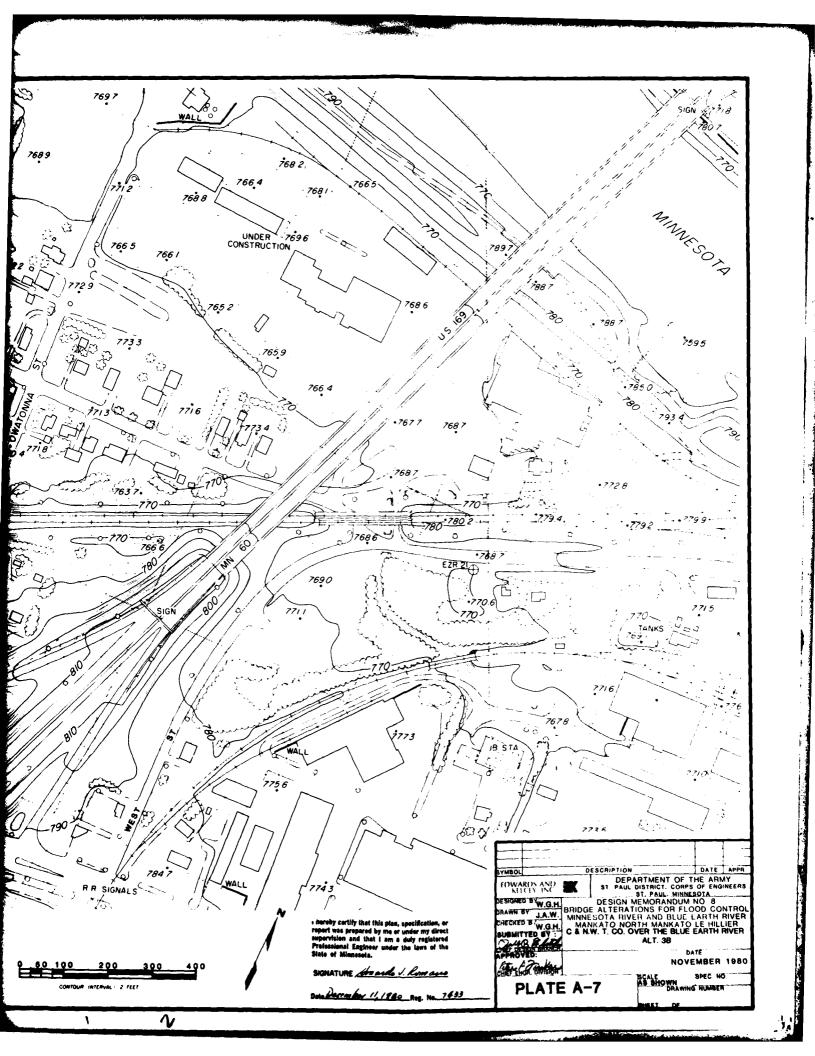


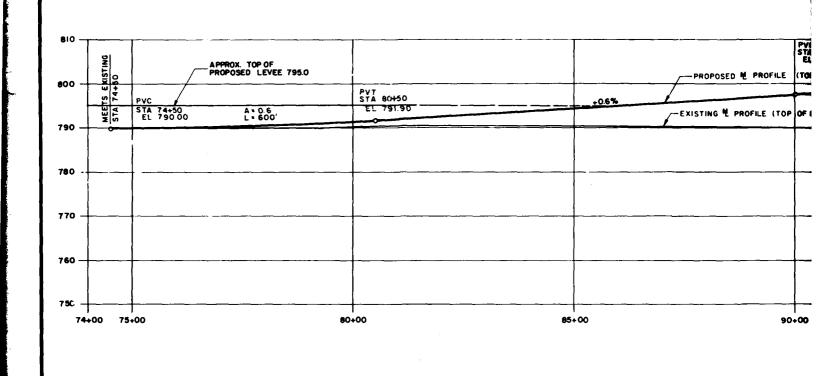


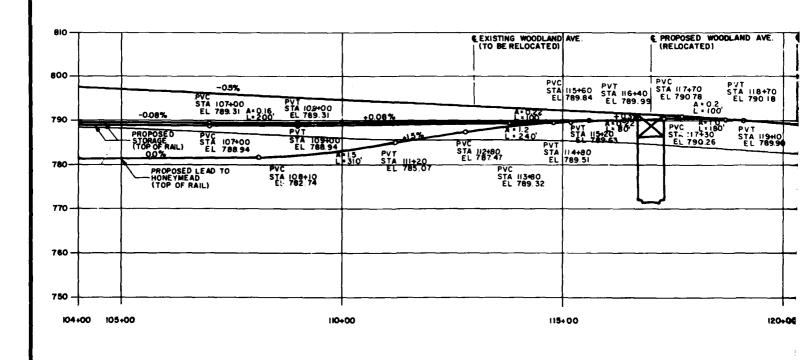












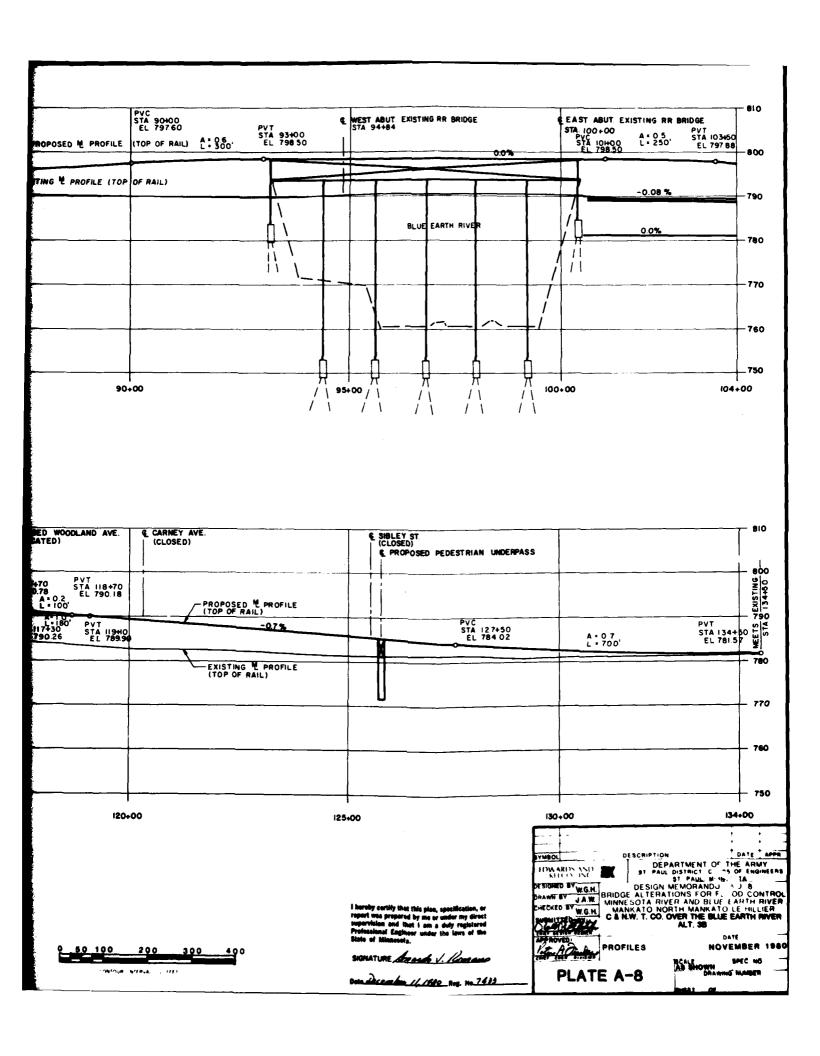


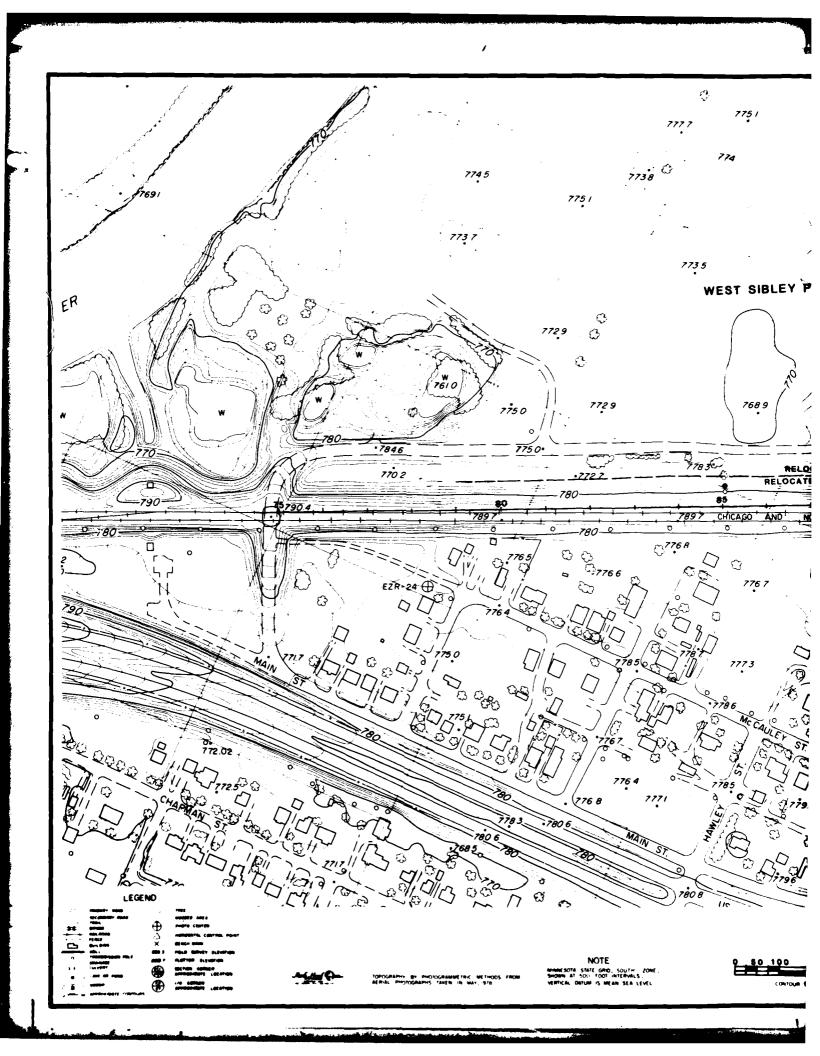
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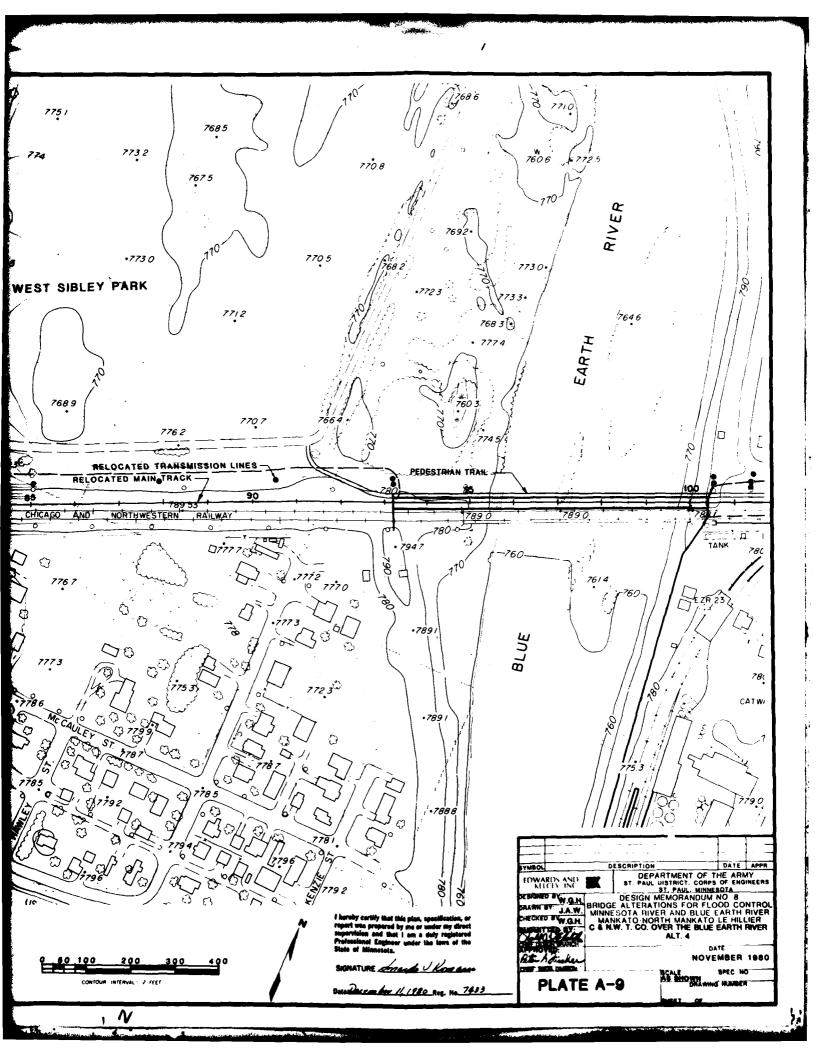
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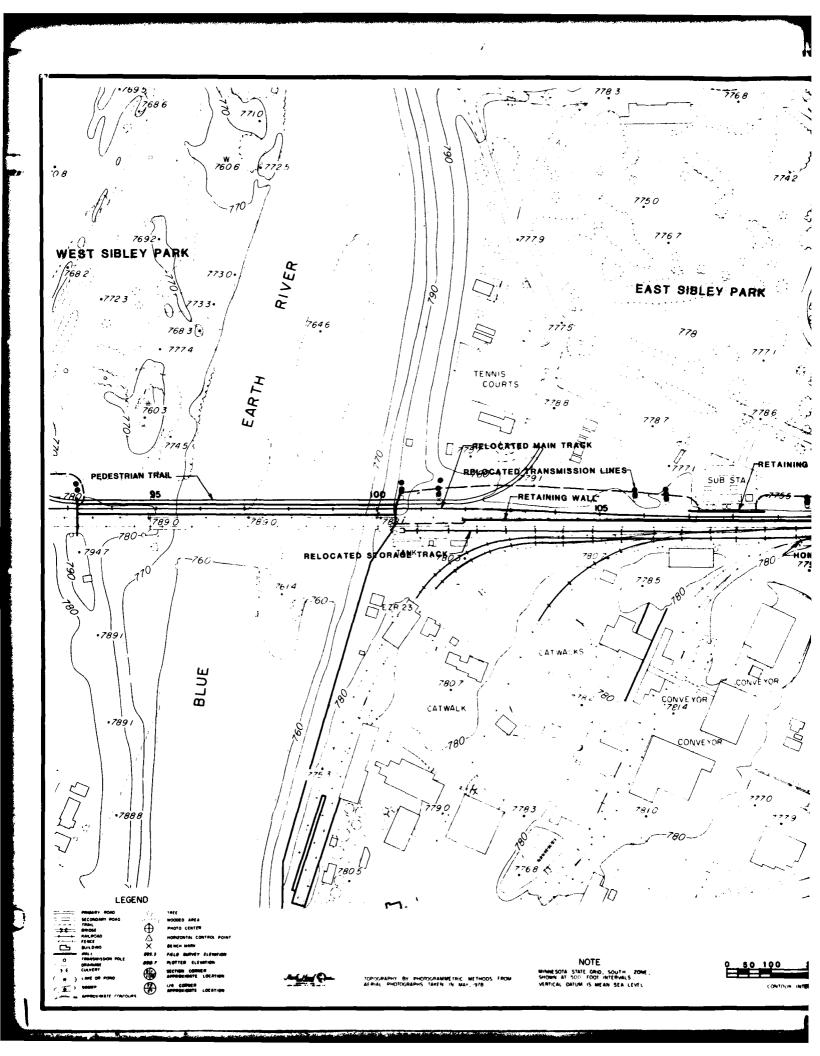
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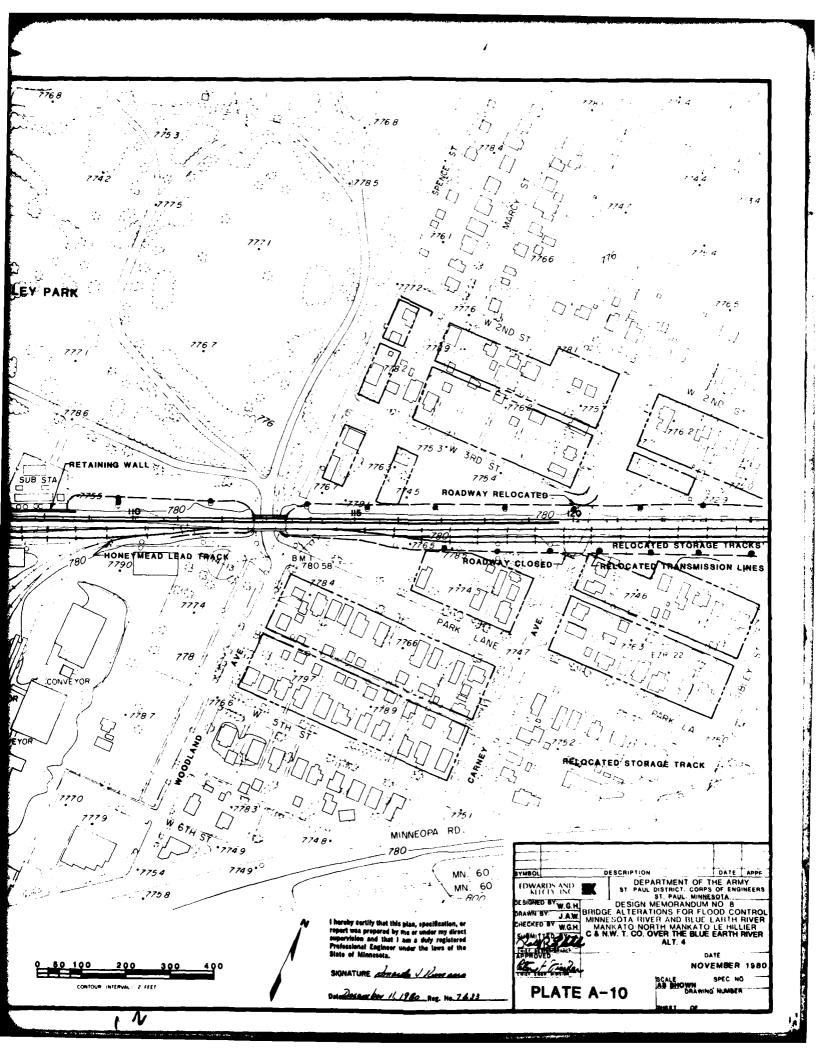
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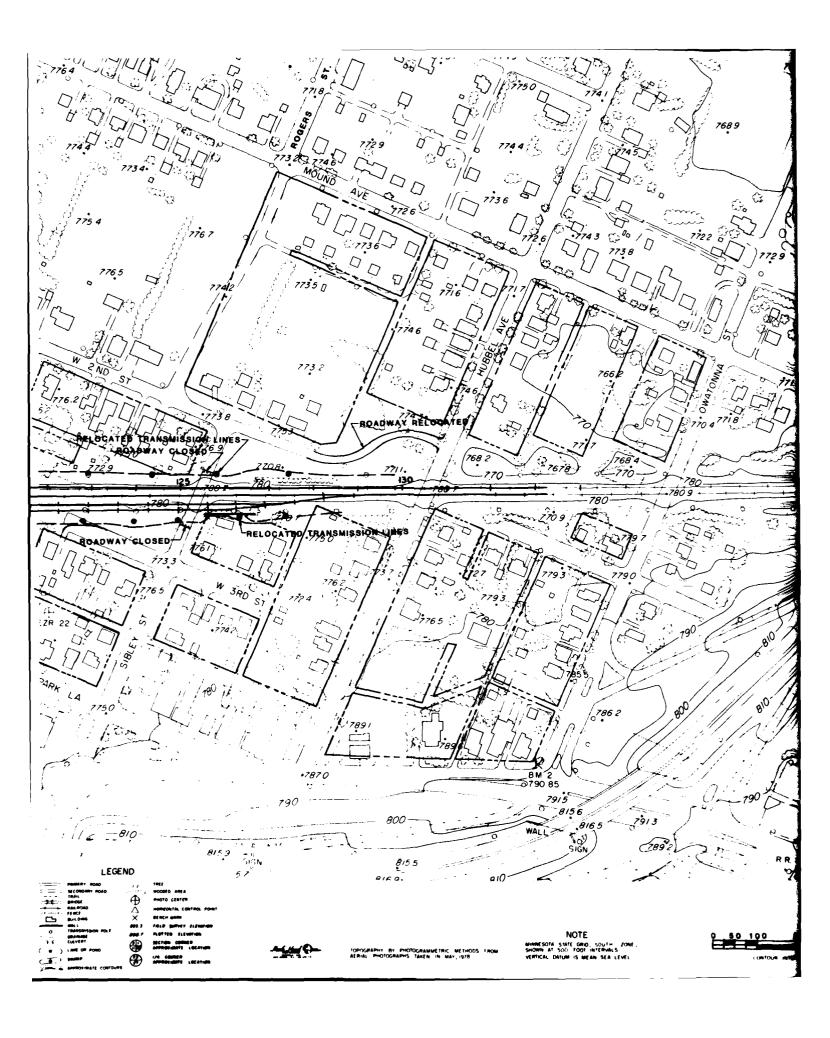


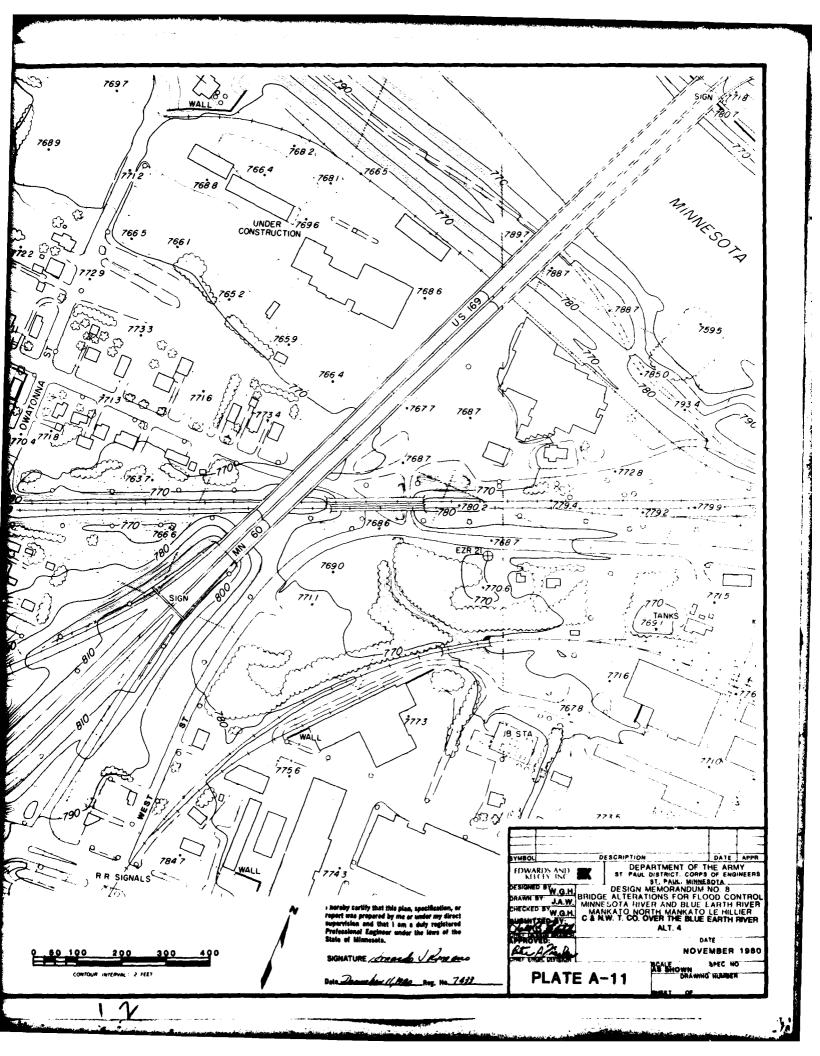


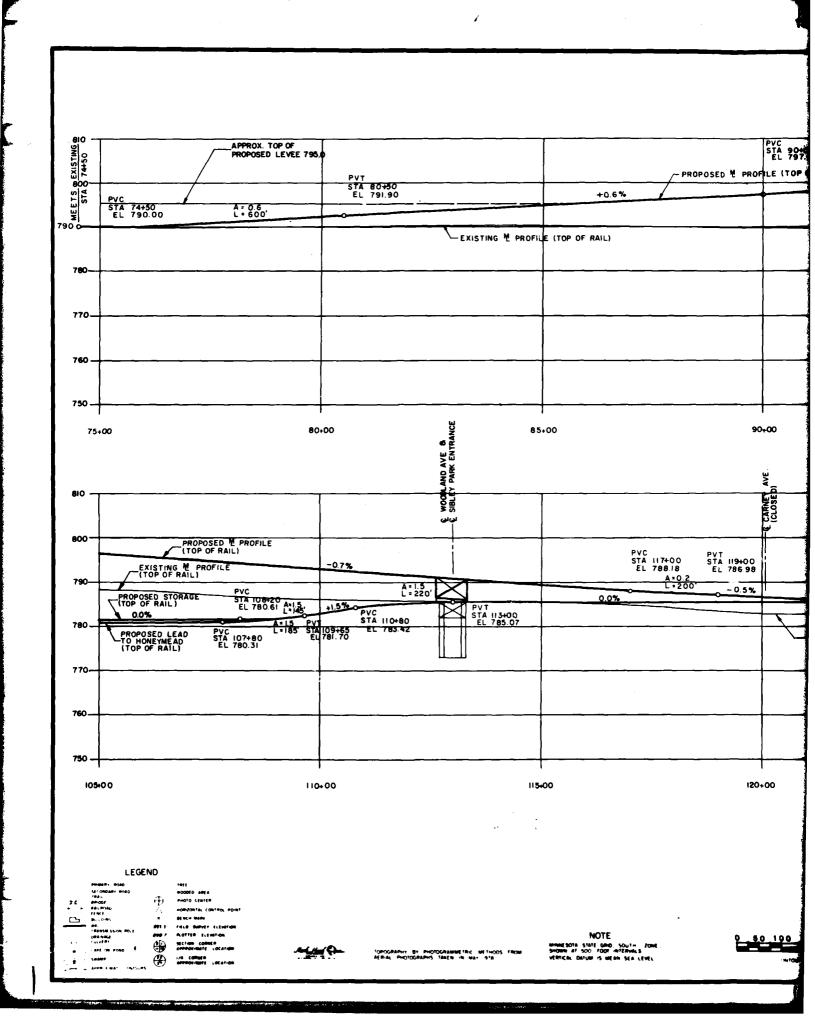


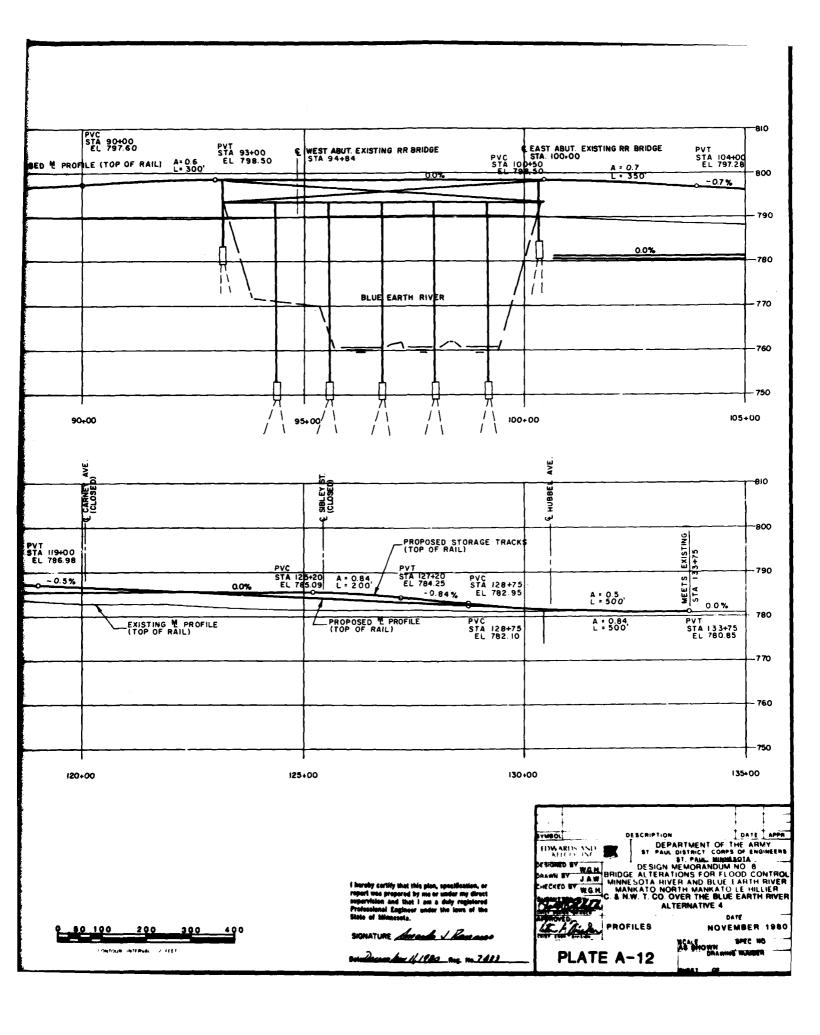


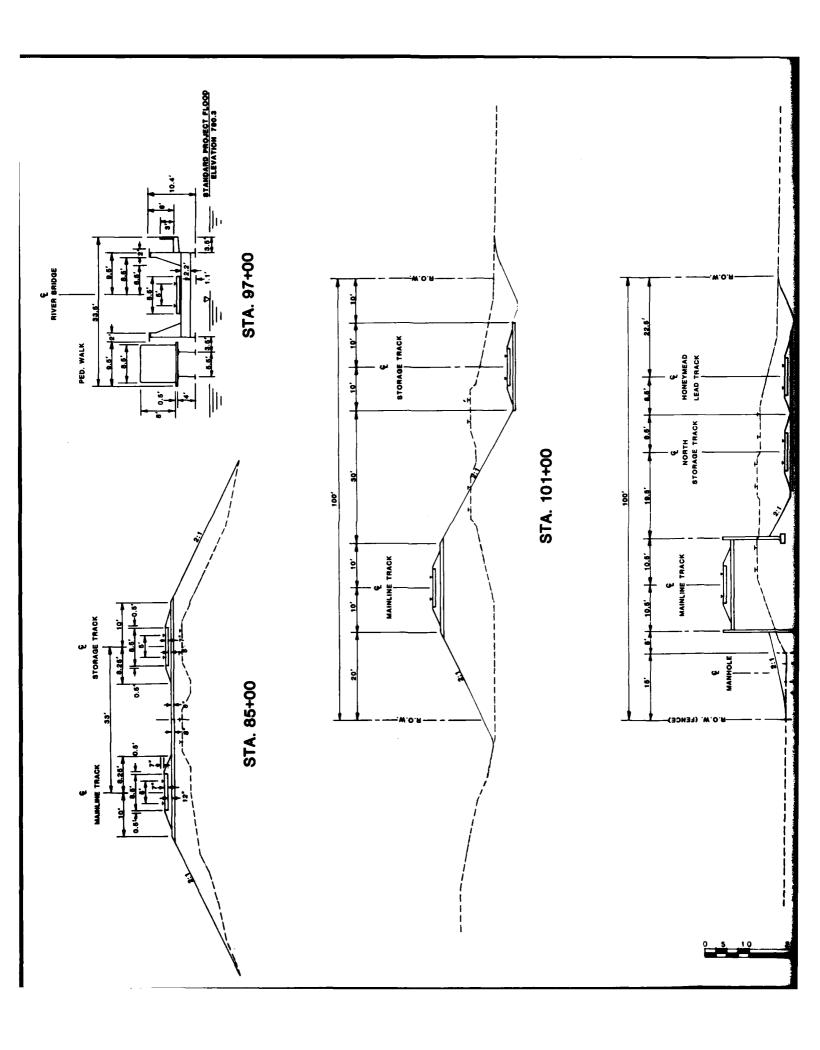


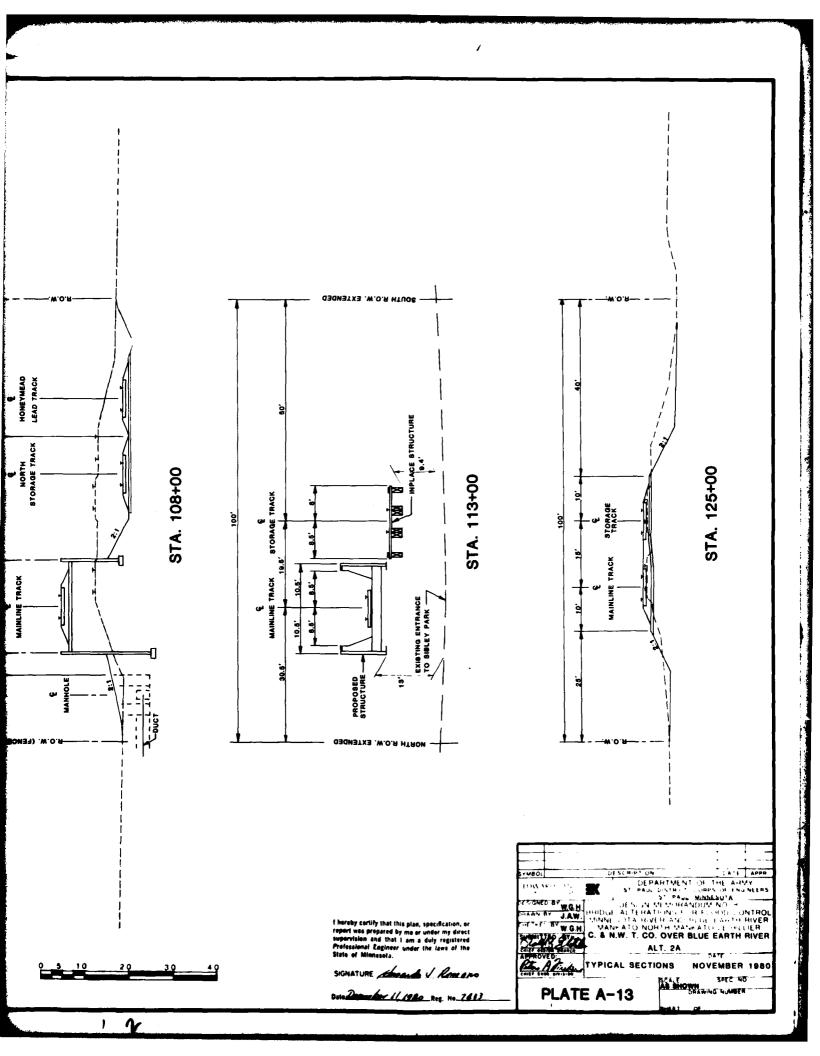


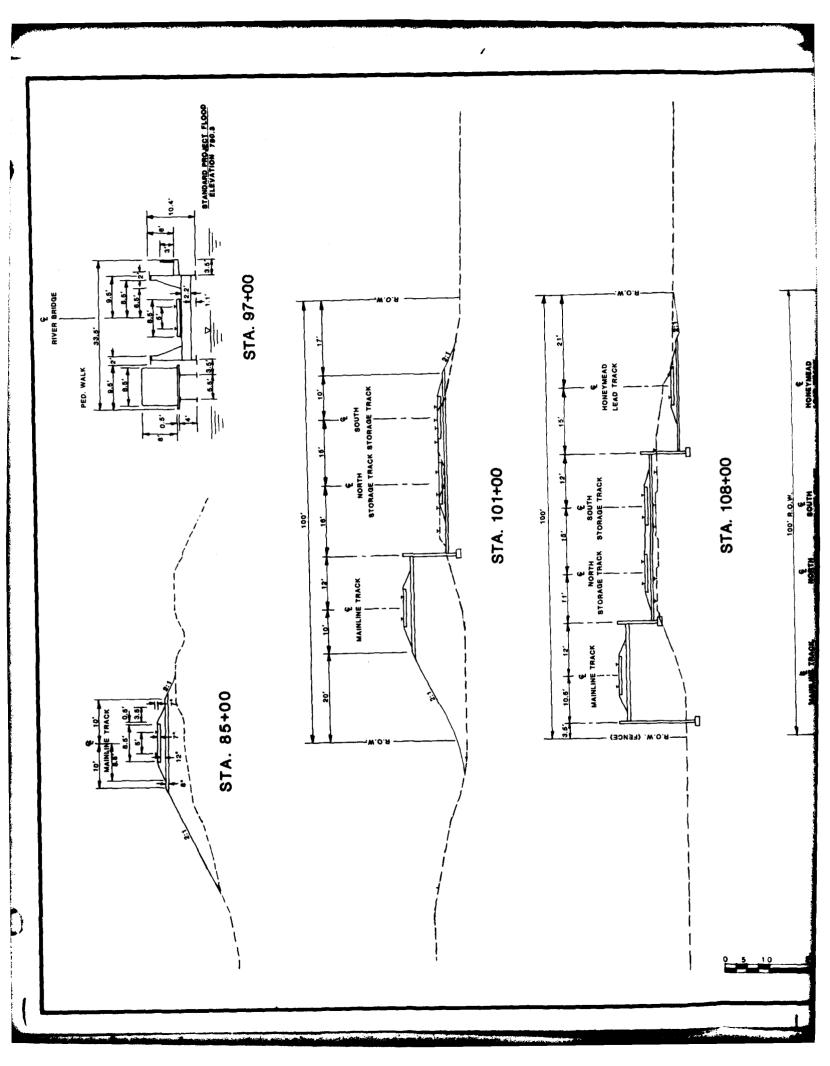


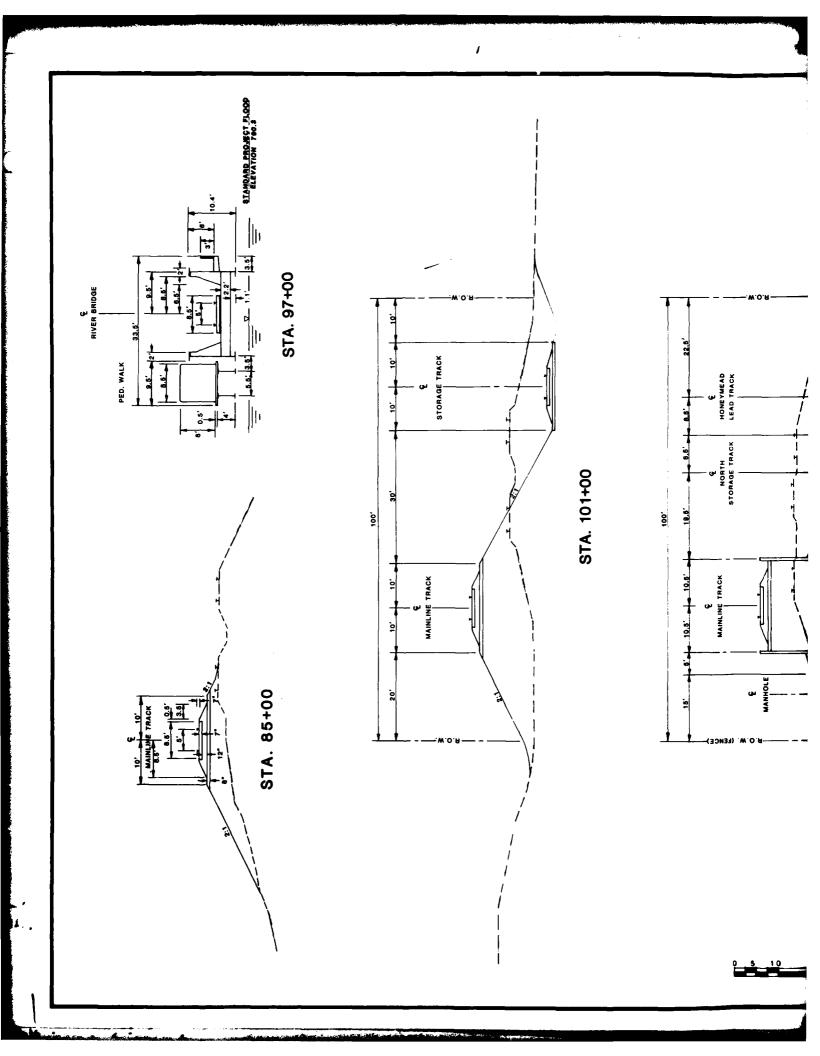


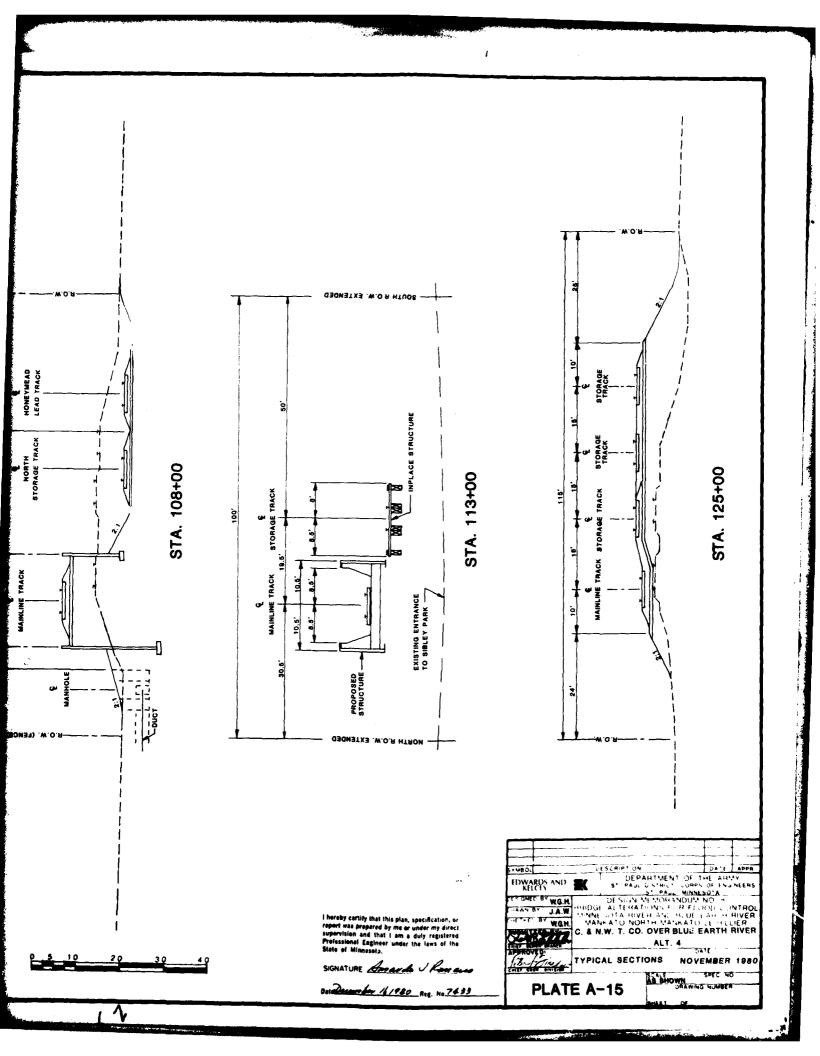












FLOOD CONTROL

MINNESOTA RIVER, MINNESOTA

MANKATO-NORTH MANKATO-LE HILLIER

DESIGN MEMORANDUM NO. 8 - PART I (Location Study)

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FOR

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CHICAGO AND NORTH WESTERN

TRANSPORTATION COMPANY BRIDGES

OVER THE BLUE EARTH RIVER BETWEEN

MANKATO AND LE HILLIER

APPENDIX B DETAILED COST ESTIMATES

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APPENDIX B

DETAILED COST ESTIMATES

Detailed estimates of project construction costs, land and right-of-way costs based, on October 1980 levels, are given in Tables B-1, B-2, B-3, and B-4.

Table B-1. DETAILED COST ESTIMATE. Alternative 2A

			Unit	Total Estimated
Item	Unit	Quantity	Cost	Cost
Federal First Cost				
Roadway and Grading Items				
Site Preparation				
Clearing	TREE	5 \$	100.00	\$ 500.00
Bituminous Pavement Removal	SY	350	2.50	900.00
TOTAL SITE PREPARATION				\$ 1,400.00
Excavation	CY	9,287	1.70	\$15,800.00
Borrow	CY	41,000	3.75	\$153,800.00
Drainage				
Catch Basin	EACH	1	800.00	\$ 800.00
18" RCP CL V Pipe	LF	198	28.90	5,700.00
TOTAL DRAINAGE FACILITIES				\$ 6,500.00
Retaining Walls				
Sheet Piling (Temp. During				
Construction)	SF	15,375		\$159,960.00
Reinforced Earth	SF	14,300	25.00	357,500.00
TOTAL RETAINING WALLS				\$517,400.00
Miscellaneous Roadway Items (<u>7%)</u>			\$ 49,000.00
TOTAL ROADWAY AND GRADING	ITEMS			\$744,000.00
Bridges				
Roadway Grade Separations	JOB	SUM		\$325,000.00

TABLE B-1. DETAILED COST ESTIMATE. Alternative 2A (Cont.)

			Unit	Total
Item	Unit_	Quantity	Cost	Estimated Costs
Federal First Costs (Continued)				
River Bridges				
Bridge Demolition Substructure Superstructure* Railroad Structure (New)	JOB JOB S.F.	SUM SUM 13,490	196.00	\$140,000.00 0.00* 2,644,000.00
*Salvage Value of Steel = 0	Cost of I	Removal		
TOTAL RIVER BRIDGES				\$2,784,000.00
C&NW T. Co. Betterment (E-55 to E-80)	JOB	SUM		(30,000.00)
TOTAL FEDERAL FIRST COST	RIVER B	RIDGES		\$2,754,000.00
TOTAL BRIDGES				\$3,109,000.00
Contingencies				\$ 578,000.00
TOTAL ROADWAY GRADING & F	BRIDGES			\$4,431,000.00
Recreational Facilities				
Pedestrian Walkway Over Blue Earth River (Connecting Sibley Park & Minnesota Vall Trail System).	ley S.F.	5,750	60.00	\$ 345,000.00
-	0	5,750	00.00	
Contingencies				\$ 51,000.00
Engineering and Design				\$ 36,000.00
Supervision and Administration	<u>on</u>			\$ 28,000.00
TOTAL DIRECT & INDIRECT ((Recreational Facilities	-			\$ 460,000.00
SPECIAL CASH CONTRIBUTION FACILITIES BY CITY OF MAN			0)	(230,000.00)
TOTAL FEDERAL FIRST COST (Recreational Facilities	es)			\$ 230,000.00

TABLE B-1. DETAILED COST ESTIMATE. Alternative 2A (Continued)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Federal First Costs (Cont.)				
Force Accounts - C&NW T. Co.				
Railroad Communication Line Rail Removal	JOB	SUM	\$	12,500.00
(Includes Rail on Structure) Rail Replacement	LF	12,333	\$3.90	48,000.00
(Assume 115 # Rail) Railroad Protection	LF	11,500	65.00	747,500.00
(During Construction) Railroad Rail Betterment (90# to	JOB	SUM	\$	104,000.00 912,000.00 (60,000.00)
TOTAL FORCE ACCOUNT (CENW T.	•		\$	852,000.00
TOTAL CONSTRUCTION COST	CTION COS	r		,803,000.00 ,483,000.00
Engineering & Design			\$	494,000.00
Supervision of Construction			\$	384,000.00
TOTAL FEDERAL FIRST COSTS:	\$6	,361,000.00		
FEDERAL CAPITALIZED COSTS (PRESE	ENT WORTH	<u>)</u> *		
Increased Operating Costs Over E Facility	xisting		\$	489,000.00
TOTAL FEDERAL CAPITALIZED CO	STS		\$	489,000.00
TOTAL FEDERAL COSTS			\$6	,850,000.00

^{*20} years @ 10%

Table B-1. DETAILED COST ESTIMATE. Alternative 2A (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs	
Non-Federal First Costs					
City of Mankato					
Roadways					
Bituminous Pavement	SY	280	\$9.30	\$ 2,700.00	
Curb and Gutter	LF	178	7.30	1,300.00	
Water Main - 16" Ductile		200	40.00		
Iron Pipe	LF	200	40.00	8,000.00	
TOTAL ROADWAYS				\$ 12,000.00	
Miscellaneous Roadway Ite	ms			\$ 1,000.00	
TOTAL ROADWAY AND GRADI	I NG			\$ 13,000.00	
Recreational Facilities					
Pedestrian Walkway over E Earth River (Connecting Sibley Park & Minnesota Valley Trail System).	31ue JOB	SUM		\$230,000.00	
Force Accounts - Utility		30		4200,000.0 0	
Northern States Power	JOB	SUM		\$227,500.00	
Minnesota Gas Co.	JOB	SUM		1,500.00	
TOTAL FORCE ACCOUNTS (L	TOTAL FORCE ACCOUNTS (UTILITIES)				
Contingencies				\$ 2,000.00	
TOTAL CONSTRUCTION COST	rs			\$474,000.00	
Engineering & Design				\$ 1,000.00	
Supervision & Administrat	ion			\$ 1,000.00	

TABLE B-1. DETAILED COST ESTIMATE. Alternative 2A (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Non-Federal First Costs (Continue	<u>:d</u>)			
City of Mankato (Cont.)				
Lands & Rights-of-Way				
Easement & Fee Title Lands Relocation Costs Acquisition & Administration Contingencies	LS LS EACH		0.00 0.00 0.00	\$ 0.00 0.00 0.00 0.00
TOTAL LANDS & RIGHTS-OF-WAY				\$ 0.00
TOTAL CITY OF MANKATO FIRST	COSTS			\$476,000.00
C&NW T. Co. Betterments				
River Bridge (E-55 to E-80) Rail (115# CWR) Contingencies	JOB LF	SUM 11,500	5.20	\$ 30,000.00 60,000.00 14,000.00
TOTAL CENW T. CO.				\$104,000.00
TOTAL NON-FEDERAL COSTS				\$580,000.00
TOTAL FEDERAL AND NON-FEDERAL	COSTS			\$7,430,000.00

Table B-2. DETAILED COST ESTIMATE. Alternative 3B

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Federal First Cost				
Roadway and Grading Items				
Building Removal	LS	1	\$1600.00	\$ 1,600.00
Excavation	CY	15,715	1.70	\$ 26,700.00
Borrow	CY	50,665	3.75	\$190,000.00
Drainage				
Catch Basin 18" RCP CL V Pipe	EACH LF	1 198	800.00 28.90	800.00 5,700.00
TOTAL DRAINAGE FACILITIES				\$ 6,500.00
Retaining Walls (Reinforced Earth)	SF	17,150	25.00	\$429,000.00
Miscellaneous Roadway Items	(7%)			\$ 46,000.00
TOTAL ROADWAY AND GRADING	ITEMS			\$700,000.00
Bridges				
Roadway Bridges Roadway Grade Separation	JOB	SUM		\$525,000.00
TOTAL ROADWAY BRIDGES				\$525,000.00
River Bridges			•	
Bridge Demolition Substructure Superstructure* Railroad Structure (New)	JOB JOB S.F.	SUM SUM 13,490	196.00	140,000.00 0.00* 2,644,000.00
*Salvage Value of Steel =	Cost of	Removal		
TOTAL RIVER BRIDGES			\$	2,784,000.00

Table B-2. DETAILED COST ESTIMATE. Alternative 3B (Cont.)

I tem	Unit	Quantity	Uni Cos	
Federal First Costs (Continued)	_			
C&NW T. Co. Betterment (E-55 to E-80)	JOB	SUM		(30,000.00)
TOTAL FEDERAL FIRST COST R	RIVER BRIDGES			\$2,754,000.00
TOTAL BRIDGES				\$3,309,000.00
Contingencies				\$ 600,000.00
TOTAL ROADWAY GRADING & BR	RIDGES			\$4,609,000.00
Recreational Facilities				
Pedestrian Walkway over Blue Earth River (Connecting Sibley Park & Minnesota Valley Trail System).	s.F.	5,750	60.00	\$ 345,000.00
•	3.1 ,	3,730	30.00	•
Contingencies				\$ 51,000.00
Engineering and Design				\$ 36,000.00
Supervision and Administrati	ion			\$ 28,000.00
TOTAL DIRECT & INDIRECT CO (Recreational Facilities	·			\$ 460,000.00
SPECIAL CASH CONTRIBUTION FACILITIES BY CITY OF MANK				(230,000.00)
TOTAL FEDERAL FIRST COST (Recreational Facilities	3)			\$ 230,000.00

Table B-2. DETAILED COST ESTIMATE. Alternative 3B (Continued)

Item	Unit_	Quantity	Unit Cost		Total Estimated Costs
Federal First Costs (Cont.)					
Force Accounts - CENW T. Co.					
Railroad Communication Line Rail Removal	JOB	SUM		\$	12,500.00
(Includes Rail On Structure) Rail Replacement	LF	13,665	\$3.90		53,500.00
(Assume 115 # Rail) Railroad Protection	LF	13,240	65.00		861,000.00
(During Construction)	JOB	SUM		61	104,000.00
Railroad Rail Betterment (90#	to 115	#)		<u> </u>	,031,000.00 (69,000.00)
TOTAL FORCE ACCOUNT (CGNW T.	. CO.)			\$	962,000.00
TOTAL CONSTRUCTION COST					,100,000.00
TOTAL FEDERAL FIRST CONSTRUC	\$5	,771,000.00			
Engineering & Design				\$	549,000.00
Supervision of Construction				\$	427,000.00
TOTAL FEDERAL FIRST COSTS:	\$6	,747,000.00			
FEDERAL CAPITALIZED COSTS (PR	ESENT W	ORTH)			
Increased Operating Costs Over	r Exist	ing			
Operation and Maintenance of Elements, Pedestrian Underp		duced		\$	6,000.00
Increased Operating Costs On ing Facility*	ver Exi	st-			256,000.00
TOTAL FEDERAL CAPITALIZ	ZED COS	гs		\$	262,000.00
TOTAL FEDERAL COSTS				\$ 7,	,009,000.00
*20 years @ 10%					

Table B-2. DETAILED COST ESTIMATE. Alternative 3B (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Non-Federal First Costs				
City of Mankato				
Site Preparation				
Curb and Gutter Removal Sidewalk Removal Bituminous Pavement Removal	LF SY SY	120 25 375	\$2.25 3.50 2.50	\$ 270.00 90.00 940.00
TOTAL SITE PREPARATION				\$ 1,300.00
Excavation	CY	2,140	1.70	\$ 3,700.00
Drainage Catch Basin	EACH	1	800.00	\$ 800.00
18" RCP CL V Pipe TOTAL DRAINAGE	LF	198	28.90	5,700.00 \$ 6,500.00
Roadways				
Pavement and Base Sidewalk Curb and Gutter Median (Island) Lane Marking Construction Bypass	SY SY LF SY RD-STA JOB	2,113 866 857 73 71 SUM	9.25 23.40 7.30 29.00 17.50	\$ 19,600.00 20,300.00 6,300.00 2,100.00 1,200.00 3,000.00
TOTAL ROADWAYS				\$ 52,500.00
Miscellaneous Roadway Items	•			\$ 4,000.00
TOTAL ROADWAY AND GRAD	ING			\$ 68,000.00
Bridges				
Sibley St. Pedestrian Underpass	JOB	SUM		\$ 59,000.00
TOTAL ROADWAY BRIDGES				\$ 59,000.00
Recreational Facilities				
Pedestrian Walkway over Blu Earth River (Connecting Sibley Park & Minnesota Valley Trail System).	e JOB	SUM		\$230,000.00

Table B-2. DETAILED COST ESTIMATE. Alternative 3B (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Non-Federal First Costs (Cont	inued)			
City of Mankato (Cont.)				
Force Accounts - Utility Re	elocation			
Northern State Power Minnesota Gas Co. Mankato Citizens Telephone	JOB JOB JOB	SUM SUM SUM		\$ 254,000.00 1,500.00 1,500.00
TOTAL FORCE ACCOUNTS (UT	ILITIES)			\$ 257,000.00
Contingencies				\$ 20,000.00
TOTAL CONSTRUCTION COSTS				\$ 634,000.00
Engineering & Design				\$ 5.500.00
Supervision & Administration	on			\$ 9,000.00
Lands & Rights-of-Way				
Easement & Fee Title Lands Relocation Costs (Fixed) Acquisition & Administration	LS	·	\$21,000. 15,500.	\$ 21,000.00 15,500.00
(4-Tracts) Contingencies	LS		24,000.	24,000.00 4,000.00
TOTAL LANDS & RIGHTS-OF-	WAY			\$ 64,500.00
TOTAL CITY OF MANKATO FI	RST COSTS			\$ 713,000.00
CENW T. Co. Betterments				
River Bridge (E-55 to E-80 Rail (115# CWR) Contingencies) JOB LF	SUM 13,240	5.20	\$ 30,000.00 69,000.00 15,000.00
TOTAL CENW T. CO.				\$ 114,000.00
TOTAL NON-FEDERAL COSTS				\$ 827,000.00
TOTAL FEDERAL AND NON-FEDE	RAL COSTS			\$7,836,000.00

Table B-3. DETAILED COST ESTIMATE. Alternative 4

Item	Unit	Quantit	Unit y Cost	Total Estimated Costs
Federal First Cost				
Roadway and Grading Ite	ms			
Site Preparation				
Bituminous Pavement Rem	oval SY	500	\$2.50	\$ 1,300.00
TOTAL SITE PREPARATIO	N			\$ 1,300.00
Excavation	CY	9,287	1.70	\$ 15,800.00
Borrow	CY	51,000	3.75	\$ 191,300.00
Drainage				
Catch Basin 18" RCP CL V Pipe	EACH LF	1 198	800.00 28.90	\$ 800.00 5,700.00
TOTAL DRAINAGE FACILI	TIES			\$ 6,500.00
Retaining Walls				
Sheet Piling (Temp, Dur Construction) Reinforced Earth	ring SF SF	15,375 14,300	10.40 25.00	\$ 159,900.00 357,500.00
TOTAL RETAINING WALLS	;			\$ 517,400.00
Miscellaneous Roadway I	tems (7%)			\$ 51,300.00
TOTAL ROADWAY AND GRA	DING ITEMS			\$ 784,000.00
Bridges				
Roadway Grade Separatio	ons JOB	SUM		\$ 325,000.00
River Bridges				
Bridge Demolition Substructure Superstructure* Railroad Structure (Nev	JOB JOB v) S.F.	SUM SUM 13,490	196.00	\$ 140,000.00 0.00* 2,644,000.00
*Salvage Value of Ste	eel = Cost o	f Removal		
TOTAL RIVER BRIDGES				\$2,784,000.00

Table B-3. DETAILED COST ESTIMATE. Alternative 4 (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs	
Federal First Costs (Continued)					
C&NW T. Co. Betterment (E-55 to E-80)	JOB	SUM		\$ (30,000.00	<u>)</u>)
TOTAL FEDERAL FIRST COST R	IVER BRIDO	SES		\$2,754,000.00)
TOTAL BRIDGES				\$3,109,000.00)
Contingencies		•		\$ 584,000.00	<u>)</u>
TOTAL ROADWAY GRADING & BR	IDGES			\$4,477,000.00) .
Recreational Facilities					
Pedestrian Walkway Over Blue Earth River (Connecting Sibley Park & Minnesota					
Valley Trail System).	S.F.	5,750 6	0.00	\$ 345,000.00)
Contingencies				\$ 51,000.00)
Engineering and Design				\$ 36,000.00)
Supervision and Administrati	on			\$ 28,000.00)
TOTAL DIRECT & INDIRECT CO (Recreational Facilities				\$ 460,000.00)
SPECIAL CASH CONSTRIBUTION FACILITIES BY CITY OF MANK				(230,000.00	<u>)</u>
TOTAL FEDERAL FIRST COST (Recreational Facilities)			\$ 230,000.00)

Table B-3. DETAILED COST ESTIMATE. Alternative 4 (Continued)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Federal First Costs (Cont.)				
Force Accounts - CENW T. Co.				
Railroad Communication Line Rail Removal	JOB	SUM		\$ 12,500.00
(Includes Rail on Structure) Rail Replacement	LF	13,665	\$ 3.90	53,300.00
(Assume 115 # Rail) Railroad Protection	LF	12,000	65.00	780,000.00
(During Construction)	JOB	SUM		104,000.00 \$ 950,000.00
Railroad Rail Betterment (90# t	(62,000.00)			
TOTAL FORCE ACCOUNTS (CENW T.	CO.)			\$ 888,000.00
TOTAL CONSTRUCTION COST				\$5,887,000.00
TOTAL FEDERAL FIRST CONSTRUCT	TION COST			\$5,565,000.00
Engineering & Design				\$ 530,000.00
Supervision of Construction				\$ 412,000.00
TOTAL FEDERAL FIRST COSTS:	\$6,507,000.00			
FEDERAL CAPITALIZED COSTS (PRES	SENT WORT	<u>`H)</u> *		
Increased Operating Costs Over Facility	Existin	<u> </u>		\$ 176,000.00
TOTAL FEDERAL CAPITALIZED COS	\$ 176,000.00			
TOTAL FEDERAL COSTS				\$6,683,000.00

^{*20} years @ 10%

Table B-3. DETAILED COST ESTIMATE. Alternative 4 (Cont.)

Item	Unit	Quantity	Unit Cost		Total Estimated Costs
Non-Federal First Costs					
City of Mankato					
Site Preparation					
Bituminous Pavement Removal Clearing Grubbing Curb and Gutter Removal	SY TREE TREE LF	325 2 2 67	\$2.50 100.00 80.00 2.25	\$	810.00 200.00 160.00 150.00
TOTAL SITE PREPARATION				\$	1,300.00
Roadways					
Bituminous Pavement Sidewalk Curb and Gutter Water Main - 16" Ductile	SY SY LF	282 44 36	9.25 23.40 7.30	\$	2,610.00 1,030.00 260.00
Iron Pipe	LF	200	40.00		8,000.00
TOTAL ROADWAYS				\$	13,000.00
Miscellaneous Roadway Items				\$_	1,000.00
TOTAL ROADWAY AND GRADING				\$	14,000.00
Recreational Facilities					
Pedestrian Walkway over Blue Earth River (Connecting Sibley Park & Minnesota Valley Trail System).	JOB	SUM		\$	230,000.00
Force Accounts - Utility Reloc	cation	33.1		*	250,000.00
Northern States Power	JOB	SUM		¢	227,500.00
Minnesota Gas Co.	JOB	SUM		φ	4,000.00
Mankato Citizens Telephone	JOB	SUM			-
-		3014			1,500.00
TOTAL FORCE ACCOUNTS (UTILITIES)					233,000.00

Table 8-3. DETAILED COST ESTIMATE. Alternative 4 (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Non-Federal First Costs (Cont.)			
City of Mankato (Cont.)				
Contingencies				\$ 2,000.00
TOTAL CONSTRUCTION CO	osts			\$ 479,000.00
Engineering & Design				\$ 1,000.00
Supervision & Administ	ration			\$ 1,000.00
Lands & Rights-of-Way				
Easement & Fee Title La Relocation Costs (Fixed Acquisition & Administ (5 Tracts) Contingencies	d) LS		\$10,000. 0. 30,000.	\$ 10,000.00 0.00 30,000.00 2,000.00
TOTAL LANDS & RIGHTS	-OF-WAY			\$ 42,000.00
TOTAL CITY OF MANKATO	O FIRST COSTS	;		\$ 523,000.00
CξNW T. Co. Betterments				
River Bridge (E-SS to I Rail (115# CWR) Contingencies	E-80) JOB LF	SUM 12,000	\$5.20	\$ 30,000.00 62,000.00 14,000.00
TOTAL CENW T. CO.				\$ 106,000.00
TOTAL NON-FEDERAL CO	STS			\$ 629,000.00
TOTAL FEDERAL AND NON-	FEDERAL COSTS	S		\$7,312,000.00

Table B-4. DETAILED COST ESTIMATE. Alternative 3A

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Federal First Cost				
Roadway and Grading Items	•			
Building Removal	LS	1	\$1600.00	\$ 1,600.00
Excavation	CY	15,715	1.70	26,700.00
Borrow	CY	50,665	3.75	190,000.00
Drainage				
Catch Basin 18" RCP CL V Pipe	EACH LF	1 198	800.00 28.90	800.00 5,700.00
TOTAL DRAINAGE FACILITI	ES			\$ 6,500.00
Retaining Walls (Reinforced Earth)	SF	17,150	25.00	\$ 429,000.00
Miscellaneous Roadway Ite	ems (7%)			\$ 46,000.00
TOTAL ROADWAY AND GRADI	NG ITEMS	;		\$ 700,000.00
Bridges				
Roadway Grade Separations	JOB	SUM		\$ 325,000.00
River Bridges				
Bridge Demolition Substructure Superstructure*	JOB JOB	SUM SUM		\$ 140,000.00 0.00*
Railroad Structure (New)	S.F.	13,490	196.00	2,644,000.00
*Salvage Value of Steel	l = Cost	of Removal		
TOTAL RIVER BRIDGES			\$	2,784,000.00

Table B-4. DETAILED COST ESTIMATE. Alternative 3A (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Federal First Costs (Continued)				
C&NW T. Co. Betterment (E-55 to E-80)	JOB	SUM		(30,000.00)
TOTAL FEDERAL FIRST COST R	IVER BRID	GES		\$2,754,000.00
TOTAL BRIDGES				\$3,109,000.00
Contingencies				\$ 571,000.00
TOTAL ROADWAY GRADING & BR	IDGES			\$4,380,000.00
Recreational Facilities				
Pedestrian Walkway over Blue Earth River (Connecting Sibley Park & Minnesota				
Valley Trail System).	S.F.	5,750	60.00	\$ 345,000.00
Contingencies				\$ 51,000.00
Engineering and Design				\$ 36,000.00
Supervision and Administration	<u>on</u>			\$ 28,000.00
TOTAL DIRECT & INDIRECT CO (Recreational Facilities				\$ 460,000.00
SPECIAL CASH CONTRIBUTION FACILITIES BY CITY OF MANK				(230,000.00)
TOTAL FEDERAL FIRST COST (Recreational Facilities)			\$ 230,000.00
Force Accounts - CENW T. CO.				
Railroad Communication Line Rail Removal	JOB	SUM		\$ 12,500.00
(Includes Rail On Structure Rail Replacement	e) LF	13,665	\$3.90	53,500.00
(Assume 115 # Rail) Railroad Protection	LF	13,240	65.00	861,000.00
(During Construction)	JOB	SUM		104,000.00 \$1,031,000.00

Table B-4. DETAILED COST ESTIMATE. Alternative 3A (Continued)

Item	Unit	Quantity	Unit Cost		Total Estimated Costs
Federal First Costs (Cont.)					
Force Accounts - C&NW T. Co.	. (Continue	<u>ed</u>)			
Railroad Rail Betterment (90	0# to 115#])			(69,000.00)
TOTAL FORCE ACCOUNT (CENW	T. CO.)			\$	962,000.00
TOTAL CONSTRUCTION COST				\$5	,871,000.00
TOTAL FEDERAL FIRST CONSTR	RUCTION CO	ST		\$5	,542,000.00
Engineering & Design				\$	528,000.00
Supervision of Construction				\$_	411,000.00
TOTAL FEDERAL FIRST COSTS	:			\$6	,481,000.00
FEDERAL CAPITALIZED COSTS (I	PRESENT WO	RTH)			
Increased Operating Costs On Facility	ver Existi	ng			
Increased Operating Costs or ing Facility*	_{ver} Exist-			\$	256,000.00
TOTAL FEDERAL CAPITALIZED	COSTS			\$	256,000.00
TOTAL FEDERAL COSTS				\$6	,737,000.00
*20 years @ 10%					

Table B-4. DETAILED COST ESTIMATE. Alternative 3A (Cont.)

Item	Unit	Quantity	Unit Cost	Total Estimated Costs
Non-Federal First Costs				
City of Mankato				
Roadways				
Bituminous Pavement Curb and Gutter Water Main - 16" Ductile	sy Lf	280 178	\$9.30 7.30	\$ 2,700.00 1,300.00
Iron Pipe	LF	200	40.00	8,000.00
TOTAL ROADWAYS				\$ 12,000.00
Miscellaneous Roadway Item	<u>s</u>			\$ 1,000.00
TOTAL ROADWAY AND GRADIN	G			\$ 13,000.00
Recreational Facilities				
Pedestrian Walkway over Bl Earth River (Connecting Sibley Park & Minnesota	ue			
Valley Trail System).	JOB	SUM		\$ 230,000.00
Force Accounts - Utility R	elocation	<u>1</u>		
Northern State Power Minnesota Gas Co. Mankato Citizens Telephone	JOB JOB JOB	SUM SUM SUM		\$ 254,000.00 1,500.00 1,500.00
TOTAL FORCE ACCOUNTS (UT	ILITIES)			\$ 257,000.00
Contingencies				\$ 2,000.00
TOTAL CONSTRUCTION COSTS		•		\$ 502,000.00
Engineering & Design				\$ 1,000.00
Supervision & Administrati	on			\$ 1,000.00

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Table B-4. DETAILED COST ESTIMATE. Alternative 3A (Cont.)

Item	Unit	Quantity	Unit Cost		Total Estimated Costs
Non-Federal First Costs (Con	tinued)				
City of Mankato (Cont.)					
Lands & Rights-of-Way					
Easement & Fee Title Land Relocation Costs Acquisition & Administrat Contingencies	LS	i	0.00 0.00 0.00	\$	0.00 0.00 0.00 0.00
TOTAL LANDS & RIGHTS-OF	-WAY			\$	0.00
TOTAL CITY OF MANKATO F	IRST COS	STS		\$	504,000.00
CENW T. Co. Betterments					
River Bridge (E-55 to E-80) Rail (115# CWR) Contingencies	JOB LF	SUM 13,240	5.20	\$	30,000.00 69,000.00 15,000.00
TOTAL CENW T. CO.				\$	114,000.00
TOTAL NON-FEDERAL COSTS	;			<u>\$</u>	618,000.00
TOTAL FEDERAL AND NON-FEI	ERAL COS	STS		\$7	7,355,000.00

FLOOD CONTROL

MINNESOTA RIVER, MINNESOTA MANKATO-NORTH MANKATO-LE HILLIER

DESIGN MEMORANDUM NO. 8 - PART I (Location Study)

AND

DRAFT SUPPLEMENT II TO THE FINAL ENVIRONMENTAL IMPACT STATEMENT

FOR

BRIDGE RELOCATIONS

CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY

OVER BLUE EARTH RIVER BETWEEN

MANKATO AND LE HILLIER

APPENDIX C
PUBLIC VIEWS AND RESPONSES

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APPENDIX C

PUBLIC VIEWS AND RESPONSES

INTRODUCTION

- C.1 The views of the public were actively solicited throughout the study. Individuals, groups, civic organizations, and governmental agencies were brought into the study process through a broadly based public information program.
- C.2 Specific elements of the program included:
 - a. Information office
 - b. Period newsletters
 - c. News media coverage
 - d. Public information meetings
 - e. Interviews with citizens directly affected by potential property acquisitions
 - f. Presentations to interested civic organizations
 - g. Workshops for City Councils and other city government, Minnesota Department of Transportation (Mn/DOT), and Corps of Engineers (COE) staff.
- C.3 The overall public information program covered the entire project. i.e., the three separate bridge locations. This appendix covers in detail the Chicago and North Western Transportation Company (CNW) bridges over the Blue Earth River between Mankato and Le Hillier, and a general description of the overall public participation process of the entire study.
- C.4 Interagency coordination was accomplished through written correspondence and briefings. This procedure established a cooperative working relationship between the several public and private agencies having direct responsibilities in the study area. Copies of correspondence exchanged are included in the Communications section below.

PUBLIC INFORMATION PROGRAM

Information Office

C.5 A public information office was maintained at 209 South Second Street, Room 208, Northwestern Office Building, Mankato for a period of 44 weeks, from September 1978 through July 1979. It will be open again during the month in which the public hearing is held.

- C.6 This office was staffed with a full time secretary and a part-time information officer. The information officer, in addition to answering questions directed to the office, attended civic meetings and made presentations to various boards and committees; was interviewed by newspapers, radio and TV; provided news releases; and participated in the public information meetings. The log of his meetings and news media contacts is given on Table C-1.
- C.7 Current and up-to-date plans were available at the office for public use. The office also distributed the newsletters and maintained a mailing list. It also logged in all project related phone calls and visits, which included 87 telephone calls and 158 office visits. The most frequent inquiries were made by individuals who were directly affected. The log of these inquiries is on file at the Corps of Engineers, St. Paul District Office.

TABLE C-1 LOG OF MEETING AND NEWS MEDIA CONTACTS BRIDGE RELOCATION INFORMATION CENTER

October 1978		Time
10	Blue Earth County Board Meeting Mankato City Council Meeting South Bend Township Board Meeting	9:00 a.m. 7:00 p.m. 8:00 p.m.
13	Coffee Break Program KEYC-TV	9:15 a.m.
16	North Mankato City Council Meeting Taped conversation with KEEZ-FM radio next day broadcast (17th)	7:00 p.m.
19	Discussion with reporter of Mankato Free Press Calls from Free Press on traffic study	
23	Nicollet County Board Meeting	9:00 a.m.
November		
1	City of Mankato Personnel Meeting	9:00 a.m.
6	South Bend Township Board Meeting	8:00 p.m.
13	Tape recording by KEE2-FM radio	
14	Tape recording by KYSM-AM radio	

November (Cont	:.)	Time
15	Public Information Meeting (Regional Library)	
16	Reporter from Mankato Free Press	
30	Reporter from KEYC-TV - taped	
December		
6	Meeting with Mn/DOT (Mankato)	
18	Meeting with Mn/DOT (St. Paul)	
January 1979		
2	Interview with KEYC-TV	
3	Informational Meeting (Roosevelt School)	
4	Reporter for KYSM-AM radio - taped	
15	Free Press reporter	~-
19	Mankato Chamber of Commerce Transportation Committee Meeting	~-
22	Reporter for KEEZ-FM radio - taped	
24	Informational meeting (North Mankato Jr. High)	** **
29	Consultant Wetmore explaining Main Street alternatives to dinner meeting of com- bined city councils of Mankato and North Mankato	
February		
13	Meeting at Corps Office in St. Paul	
14	Meeting at Mn/DOT (Mankato)	
16	Chamber of Commerce Transportation Committee Meeting	
28	Presentation to Exchange Club (Century Club, North Mankato)	12:00 noon

March		Time
16	Chamber of Commerce Transportation Committee Meeting	
<u>April</u>		
4	Consultant presentation at Regional Law Enforcement Center (Mankato) attended by staff personnel from Corps, Mn/DOT Central and District Offices, Cities of Mankato and North Mankato, Federal Highway Administration (FHWA), CNW, and Honeymead Company.	~-
18	Reporter from KEEZ-FM radio - taped	
20	Chamber of Commerce Transportation Committee Meeting	
May		
6	Radio stations calling about Saturday's meeting with the City Councilors	
24	KEYC-TV program - On Air Live	9:30 a.m.
25	Chamber of Commerce Transportation Committee Meeting	10-12 a.m.
30	Informational Meeting (Roosevelt School)	·
31	Informational Meeting (West High)	
June		
15	Chamber of Commerce Transportation Committee Meeting	10-12 a.m.
18	Kiwanis Club noon meeting	
<u>July</u>		
20	Chamber of Commerce Transportation Committee Meeting	10-12 a.m.

Newsletters

C.8 Four project newsletters were mailed to approximately 2,100 individuals, organizations and agencies. Approximately 100 additional copies were distributed and made available at the information office, public libraries, and city halls. The first newsletter was mailed in November 1978, the second in December 1978 and the third in May 1979. The fourth was sent in November 1979. All were mailed or distributed at least one week in advance of the public information meeting dates. Copies of each newsletter are included in the Communication section of this appendix.

Media Coverage

C.9 In addition to the 10 radio and TV events in which the information officer participated, extensive coverage was given the project by the Mankato Free Press. The majority of this coverage, however, centered on issues, concerning the Main Street bridge. Copies of these articles are included under the Communications section. A list of area-wide news media is given in Table C-2.

Public Information Meetings

C.10 Three public information meetings were held. Approximately 85 persons attended the first meeting, which was held on 15 November 1978, at the Minnesota Valley Regional Library, Mankato. At this meeting the project goals and objectives were presented along with background information leading up to the project study. The scope of work to be performed was provided regarding the flood protection project requiring major alterations of existing conditions at the bridge sites. The initial concerns and attitudes of those attending were heard and recorded for later use. The dominant concern of this meeting had to do with the location and site of the Main Street Bridge replacement, and the corridor width to be studied at the TH 169/60 site over the Blue Earth River.

TABLE_C-2. NEWS MEDIA

Blue Earth County

MANKATO FREE PRESS 418 South Second Street Mankato, MN 56001 (625-4458)

KEEZ-FM RADIO 227 East Main Mankato, MN 56001 (345-4646)

Nicollet County

KYSM AM-FM RADIO 1807 Lee Blvd. North Mankato, MN 56001 (345-4673)

KEYC-TV 1570 Lookout Drive North Mankato, MN 56001 (387-7905)

iABLE C-2 (Cont'd.)

Blue Earth County

KTOE RADIO Highway #14 East P. O. Box 1420 Mankato, MN 56001 (345-4537)

MSU REPORTER
Box 38 - Student Union
Mankato State University
Mankato, MN 56001
(389-1776)

Nicollet County

ST. PETER HERALD 311 South Minnesota Avenue St. Peter, MN 56082 (931-4520)

KRBI RADIO 1031 Grace Street St. Peter, MN 56082 (931-3220)

C.11 The second meeting pertaining to the CNW over the Blue Earth River was held on 3 January 1979 at Roosevelt Elementary School. About 80 people attended this meeting. During this meeting all the alternatives that had been developed to date were presented and comments on each of the alternatives were recorded. Concern was voiced regarding changes in street patterns, the effects of the proposed alterations on noise, property acquisition and relocation costs, traffic problems, school children's crossings, property acquisitions, and the responsibility for final decisions.

C.12 The third meeting, attended by about 80 people, was held at Roosevelt School on 30 May 1979. At the time of this meeting the proposed alternatives had been narrowed to three (2A, 3B and 4). These were presented in detail along with summaries of the impacts of each. At this meeting concerns were voiced about noise coming from the proposed elevated and alterations of TH 169/60. Other issues voiced were about right-of-way acquisition and relocation procedures. Concern was also expressed about the street closings and changes under the various railroad alternatives. Copies of the transcripts of these meetings are on file in the Corps of Engineers, St. Paul District Office and copies of the information handouts for the 15 November 1978 and 24 January 1979 meetings are given under Communications section. Additional copies of the third newsletter were available for information at the 30 May meeting.

Interviews with Citizens Directly Affected by Potential Property Acquisitions

C.13 In conjunction with the evaluation of social impacts, relocations, and right-of-way costs, the owner or renter of every property affected by a potential property acquisition was contacted either in person or by telephone. This process afforded the opportunity to inform these people about the project and to hear their

their concerns directly and individually. A few, particularly owners of commercial property, were interviewed several times during the course of the study.

Presentations to Interested Civic Organizations

C.14 The information officer made presentations to the Mankato Chamber of Commerce Transportation Committee, the Exchange Club, and the Kiwanis Club as indicated in the log of his contacts.

INTERAGENCY COORDINATION

C.15 The Minnesota Department of Transportation, the City of Mankato, the Minnesota Historical Society, and the Chicago and North Western Transportation Company were contributors and participants to this study. Coordination with other agencies are described below.

State and Federal Agencies

- C.16 All state and federal agencies having an interest in the project were contacted early in the study by letter with a request to designate a liaison person. Those designated and copies of replies received are included under Communications section.
- C.17 On 13 February 1979, the consultants' study team and the Corps staff presented two briefings to State and Federal agencies on the project progress, project setting, environmental concerns, and the Stage 2 alternatives being considered for study. During these briefings no State or Federal representative expressed any concern beyond those presented. Agencies represented at these briefings are listed in Table C-3. In addition to these direct contacts, all agencies were kept informed by the periodic newsletters.

TABLE C-3
ATTENDANCE AT STATE AND FEDERAL AGENCY BRIEFINGS
13 February 1979

Minnesota

Department of Transportation, Highways
Department of Transportation, Railroad Operations
Pollution Control Agency
Department of Agriculture
Water Resources Board
Department of Economic Development
Department of Health

United States

Environmental Protection Agency
Department of Interior, Geological Survey
Department of Interior, Fish and Wildlife Service
Department of Agriculture, Soil Conservation Service
Department of Commerce, Economic Development Administration
Department of Housing and Urban Development

Counties and South Bend Township

C.18 The boards of Blue Earth and Nicollet Counties and South Bend Township (Le Hillier) were kept informed of the study through the periodic newsletter and through presentations to the boards by the project information officer.

Others

C.19 All of the private utility companies in the area were informed of the project and also participated in providing information on their plant and in estimating the costs of adjustments.

The companies contacted were:

Northwestern Bell Telephone Co. 215 E. Hickory Mankato, MN 45001

Northern States Power Co. 2nd and Lime Streets Mankato, MN 56001

Mid-Communications, Inc. 221 E. Hickory Mankato, MN 56001 Minnegasco 2400 N. Front St. Mankato, MN 56001

Interstate Power Co. Amboy, MN 56010

Mankato Citizens Telephone Co. 221 E. Hickory Mankato, MN 56001

Minnesota C.A.T.V., Inc. 228 S. Front Street Mankato, MN 56001

COMMENTS AND RESPONSES

C.20 Copies of comments received and responses thereto are given under Communications section below.

COMMUNICATIONS

C.21 Copies of newsletters, correspondence exchanges, news clippings, and a list of state and federal agency contacts follows. NEWSLETTERS

BULK RATE
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MANKATO, MI 56001

Bridge Relocation

REMINDER

To encourage early and continuing community participation, a public meeting has been scheduled for:

- November 15, 1978, 7:30 P.H.
- Minnesota Valley Regional Library.
- Front \$ Main Streets, Mankato.

Please join us so that your ideas and concerns can be included in the initial planning stages of this project.

The editorial content of the Community Meesletter is the responsibility of the staff of Edwards and Keley, inc. Consultants. The newsletter is prepared and distributed by the Bridge Relocation Information Office and published under the maspices of the St. Paul District, Corps of Engineers.

Information Office Address:

Bridge Relocation - Information Office Room 208, Northwestern Office Bldg. 209 South Second Street Mankato, Ninnesota 56001 Or call S07- 387-7860

NORTH NORTH

Bridge Relocation

Newsletter

Number I, Mankato - N. Mankato - LeHillier

November, 1978

LOCATION: The circled sections show the three study areas under consideration for the bridge relocation and alteration study.

Bridge Relocation Study Begins

The St. Paul District Corps of Engineers has announced the start of a comprehensive study to determine the best location for a new Main Street Bridge over the Minnesota River; the replacement or raising of the two Trunk Highway 169 Bridges over the

Blue Earth River; and the two Chicago and North Mestern Transportation Co.
Bridges over the Blue Earth River.
All bridges must be raised or replaced to provide adequate channel capacity for flood control.

SCOPE

Edwards and Keltey, Inc. of Minnespo-lis, assisted by Rishe Carroll Muller Associates, Inc. of Mankato, and Braum Engineering Testing Co., Minnespolis, will assaine the engineering, social, ecomonic, and environmental aspects of raising or replacing the structures.

The present Main Street Bridge, built in 1916, is inadequate for two reasons. The present is structure cannot handle present peak traffic volumes without considerable congestion. Secondly, the readow on the bridge is well below the projected Corps' design flood levels. A new bridge will be required.

The T.H. 169 Bridges and the two rail-d bridges over the Blue Earth River raiso below projected filod levels. This study will determine if it is best to modify or replace these struc-

POTENTIAL IMPACTS

varying degrees to air quality, noise levels, water resources, regional and levels and businesses, wildlike and people and businesses, wildlike and vaterfowl habitat, park and recrea-tional facilities, and traffic pat-terns. These impacts will be investi-gated and the extent of the impact will be addressed in an Environmental With the proposed bridge alterations the potential exists for impacts of Impact Statement.

COMMUNITY INVOLVEMENT

District, Corps of Engineers, has opened the project Information Office in Room 208, Northwestern Office Build-

of October 2, 1978, the St. Paul

INFORMATION OFFICE

ing, 209 South Second Street, Mankato. The office will be open from 8:00 a.m. to 4:00 p.m., five days each week.

> The principal aims of the studies are to develop river and railroad crossings that adequately meet the needs of the people they are designed to serve. The Copys of Engineers is planning a comprehensive Community Involvement Program, to go hand-inhand with its engineering studies.

Bridge Relocation Study Procedure

CONSULTANT STUDY ELEMENTS

- Data Collection
 Identification of alternatives
 Assessment of alternatives in terms of:
- · Planning considerations
- · Traffic service needs
- Engineering considerations Environmental factors
- · Presentation of findings (Preliminary
 - report)

 Draft Environmental Impact Statement e Review and evaluation of agency and
- e Final recommendations (Final Report) e Final Environmental Impact Statement

COMMUNITY PARTICIPATION

- Continuous public involvement is provided for through:
- * The Information Office
- . A periodic Newsletter
- · Periodic public meetings
- responsible community groups as requested · Group discussions with
- Public Hearing

letter is to obtain as much community reaction and opinion as possible. If you would like to express your ideas concerning the project, or have any questions you want answered, please reaction and opinion as possible. contact the office.

series of community meetings, press releases, informational newsletters, and an information office within the Highlights of the program will be a

TRAFFIC STUDIES

ducted at each of the four existing river crossings in the Mankato, North, Mankato, and Le Hillier areas, supplemented by traffic counts at intersections in the vicinity of each river crossing. This information will be used to assess the probable impacts on traffic circulation patterns during and after construction. Emphasis will venient access to existing and planned be placed on maintaining safe and condevelopments while minimizing circula-tion of traffic through sensitive Origin-Destination Surveys were con-

wish to express their gratitude for the willing cooperation of the motor-ing public who responded to the questionnaires that we passed out during The project staff and survey crews these surveys.

take advantage of the information Office, to call, write, or stop by, to keep up-to-date on latest project developments.

hopes that interested persons will

The public is cordially invited to visit the office or phone 387-7860 during business hours. The Corps

OTHER STUDIES

This is the first issue of a newsletter

COMMUNITY NEWSLETTER

to report the progress of the Bridge Relocation Studies. These newsletters will be mailed periodically to resi-dents and businesses in the study

While the mailing list is meant to be as complete as possible, some names may have been missed. If you didn't

call or write the Information Office

receive a copy, or know of someone whose name should be added, please

The purpose of the office and news-

The study objectives are o consider two specific requirements:

- Meet year 2000 traffic needs, and
- Compatibility with Corps of Engineers on-going flood control

In conjunction with these requirements, other studies such as raddway surveys, bridge inspections and environmental investigation of the rivers are now in progress.

BRIDGE RELOCATION

PUBLIC INFORMATION MEETING

November 15, 1978

Regional Library, Mankato

STUDY AREA

NEWSLETTER

This comprehensive study when completed will determine the best location for a new Main Street Bridge over the Minnesora River; the replacement or raising of the two T.M. 169 Bridges over the Blue Earth River, and the replacement or raising of two Chicago and North Western Transportation Co. Bridges over the Blue Earth River. All bridges at these three sites must be raised or replaced to provide adequate channel capacity for flood control.

A newsletter will be published and mailed periodically to residents and interested persons. A mailing list has been prepared. While this list is meant to be as complete as possible, some names may have been missed. If you didn't receive a copy, or know of someone whu should be on the list, please let us know. Call or write the Information Office.

INFORMATION OFFICE

Written and oral comments are welcomed and we urge you to contact us.

As of October 2, 1978, the St. Paul District, Corps of Engineers, has opened the project Information Office in Room 208, Morthwestern Office Building, 209 South Second Street, Mankato.

The office will be open from 8:00 a.m. to 4:00 p.m., five days each week.

You are cordially invited to visit the office or phone 187-1860 during business hours. The Corps hopes that interested persons will take advantage of the Information Office, to call, write, or stop by, to keep up-to-date on latest project developments.

Ì

It is the intent and desire of the St. Paul bistrict, Corps of Engineers, to provide the means through which all interested parties may have an opportunity to participate in the process of determining what should be done at the three sites, noted on the map.

The Corps of Engineers has initiated this meeting tonight, as one of the means to present information pertaining to planned transportation needs in and for your community.

Usually, this function is carried on and conducted by the Department of Transportation, but because of the uniqueness of this project, Congress has placed this project under the control of the Corps of Engineers. However, the project will follow guidelines and procedures formulated by the Winnesota Department of Transportation.

We seek your views, and urge you to ask questions on any subject pertaining to this project.

PLANNING AND DEVELOPMENT PROCEDURES

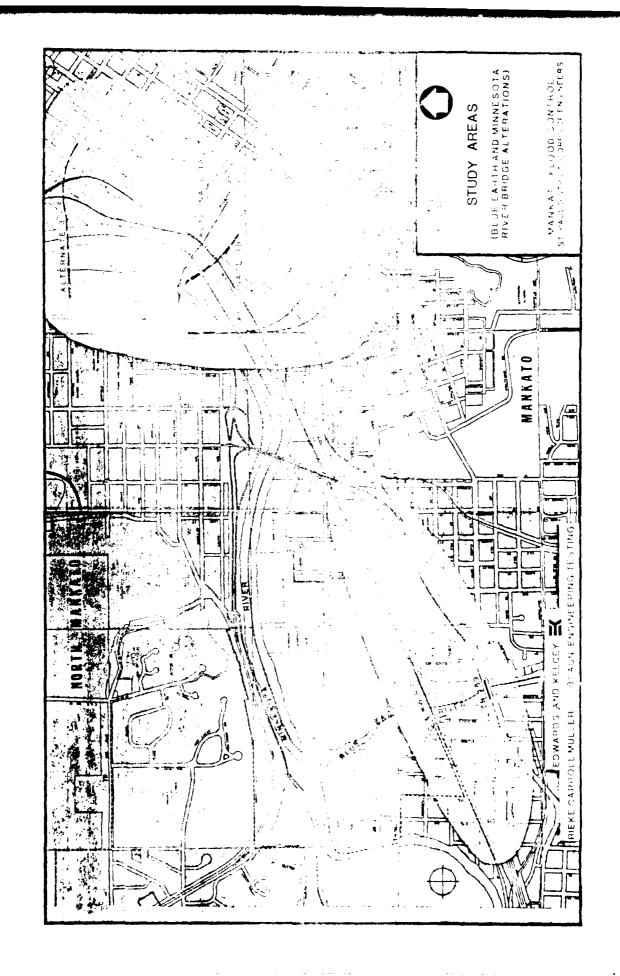
Briefly, any highway planning and development process involves three major phases:

EDWARDS AND KELCEY, INC.

Phase I - Systems Planning Phase II - Location Planning Phase III - Project Development Phase I establishes and analyzes the need for a facility on a regional basis and within a designated area or corridor; Phase II includes the location study, draft environmental impact statements, corridor public hearings and final EIS; Phase III involves preliminary and final design, design public hearings, right-of-way acquisitions and construction. Therefore, tonight's subject falls under the Location Planning Phase.

STUDY OBJECTIVES

The primary purpose of this study will be to provide flood protection. Another objective is to select alternatives that will best meet the transportation needs of the local communities for the year 2000, while comsidering such items as socio-economic and community impacts, engineering requirements, traffic service and safety, project and road-user costs, the environment, and aesthetics. The proposed solution to be compatible with the Corps of Engineers' on-going flood control works.



BULK RATE
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Bridge Relocation Veirsletter

REMINDER

To encourage the continuing community participation, two public meetings have been scheduled for:

January 3, 1979 at 7:30 p.m. Roosevelt School W. 6th and Owatonna, Mankato

January 24, 1979 at 7:30 p.m. North Mankato Junior High School Corner of Range & Garfield, N. Mankato

The editorial content of the Community Measletter is the responsibility of the staff of Edwards and Kelcey, Inc. Consultants. The newsletter is prepared and distributed by the Bridge Relocation Information Office and published under the auspices of the St. Par' District, Corps of Engin

Information Office Address:

Bridge Relocation - Information Office Room 208, Northwestern Office Bldg. 209 South Second Street Ambabate Winneson 56001 Bunday thru Friday from 8:00 1.m. to 5:00 p.m. or 4:21 (507) 397-7460

Newsletter Bridge Relocation

Mankato - N. Mankato - LeHillier

Number 2

December, 1978

Bridge Relocation Study



The flood of 1951 prompted local critisms to travel to Washington to ask for help with flood control

WHAT IT'S ALL ABOUT

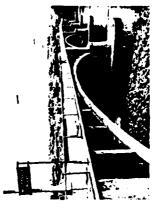
Mankato and N. Mankato citizens went to Washington to ask for help to protect the Cities from further flooding by the Minn. and Blue Earth Rivers. The Dept. of the Army was directed to study the problem and plan for flood protection.

parable to the [965 flood) and the Bine Earth River dam. These would have provided the standard propect flood protection for kinkero, N. Mankato and Le filter. Plan 2 involved the construction of flood harriers (retaining walls, and levies) and the raisenny of Two plans were proposed. Plan I was a combination of flood walls and levies for un 80 year flood occurrence (com-

bridges to provide the standard project flood protection bur without the dam. Plan 2 was ultimately adopted after it was determined by the Corps that the dam was uneconomical to construct.

The firm of Edwards and Kelcey, Mpls., has been retained by the Corps to study the alternatives and prepare the necessary reports and documents for locating and designing the new high bridges.

form and receive citizen comments on the progress and development of these A meeting was held in November to instudies. Additional meetings are planned. Please see the back page for location and time.



During high water ice and Ashris caught behind the Main Street Bridge fun up the Minnevatin River; and cause further Reading

ALTERNATIVES

• T.M. 169 OVER THE BLUE EASTH RIVER The following alternatives have been selected for study with regard to raising as relecating the bridges and roadway ever the Blue Earth River.

- 1.A. Existing Readesy Alignment, with provisions for on and off ramps to Mismeogra Road to and from the south.
- 1.8. New head Alignment slightly south
 of existing bridges, with provisions
 for on and off ramps to Winnespa
 Need to and from the south.
- 2.A. Existing Boadway Alignment, with northbound off-ramp to Sibley St. meanthbound on-ramp from Himsops Road.
- 2.B. Mew Boadway Alignment, slightly south of existing bridges, with morthbound off-ramp to Sibley Stand and a southbound on-ramp from Misseops Road.
- 3.A. River bridges on existing alignments with modifications to the Park Lane Interchange.
- 3.8. River bridges on new alignments with modifications to the Park Lame Interchange.

These alternatives will be presented for discussion at the next public information meeting on January 3, 1979.

OVER BLUE EARTH RIVER

Ö

The following alternatives have been selected for study with regard to raising or relocating the bridges. and tracks over the Blue Earth River. Alternatives include the Woodland Avenue bridge at the entrance to Sibley Park.

- 1. Raise both bridges on present alignment.
- 2.A. Raise Mainline north track.
 Stub end south track for
 storage, and retain present
 Moodland Avenue entrance to
 Sibley Park.
- 2.8. Raise Mainline north track.
 Stub end south track for
 storage, and replace Woodland Avenue bridge between
 Woodland and Carney Avenues.
- 3.A. Raise Mainline north track on new alignent slightly north of existing tracks. Stub end both existing tracks for storage, retain and anodify existing Woodland Avenue bridge entrance to Sibley Park.
- 3.B. Raise Mainline north track on new alignment slightly north of existing tracks. Stub end both existing tracks for storage, and replace hoodland Avenue bridge between Woodland and Carney Avenues.

These alternatives will be presented for discussion at the next information meeting on January 3, 1979.

MAIN STREET BRIDGE ALTERNATIVES HOME

Four alternatives to replace and relocate the present kain 8 Street Bridge will be presented at the January 24th meeting. The alternative locations are:

- 1.A. Belgrade to Mulberry
- 1.B. Belgrade to Main
- 2. Range to Cherry-Warren
- 5. Monroe to Madison

1ST PUBLIC MEETING

The first public information meeting of the Mankato Bridge Relocation Project was held Mednesday, November 15, 1978, at the Minnesota Valley Regional Library, Wankato, NN. Approximately 85 persons were in attendance.

Bob Penniman, of the St. Paul District Corps of Engineers, presented the opening remarks and stated the purpose of the meeting and Corps' involvement in the project. Marty Romano, of Edwards and Kelcey,
Inc., introduced members of the project
staff to the audience and narrated a
slide presentation giving an overall
view of the project area and the scope
of the project.

Tom Metmore, of Edwards and Kelcey, Inc., reported to the audience on the proposed four alternative bridge locations for the new Main Street Bridge and the necessity to raise the twin Highway #169 bridges over the Blue Earth River and the nearby railroad

Opportunity was given to the audience to ask questions and voice opinions. Some citizens gave their opinions on certain alternatives and discussion followed regarding the fact that all alternatives will be given equal consideration when studies along with the environmental and traffic study data.

HOMEOWNERS & BUSINESSMEN SURVEY

Homeowners and businessmen who would be affected by bridge relocation and construction are being interviewed. It is necessary to gather data to determine which option for a proposed new bridge to link Mankato and North Mankato will have the most beneficial effect on its surrounding area.

Some of the questions will pertain to business hours, parking facilities, condition and value of buildings, ship or rental agreements, type of payroll samings. All information will be beld confidential.

The survey will continue until all the zones involved have been covered. It should be noted however that beling interviewed does not mean that any specific location has been selected.

ENVIRONMENTAL STUDIES

A team of natural environmentalists led by Dr. Henry Quade of the Environmental Studies Institute at Manhato State Univ. Ass been actively gathering information about potential imports to the water quality and plant life related to any proposed bridge construction. Nater chemistry and smalysis has been supplemented with information from the Ninn. Pollution Control Agency and the U.S. Geological Survey. The team is analyzing samples to determine the level of existing pollutants that might be disturbed during construction. Also, the team is responsible for determining whether there are any 'rare or endangered species' of wildlife, or plantlife. Planners and engineers for the project will then use the findings to lessen simpact to the river during construc-

C. & N.W. RAILROAD BRIDGES

OVER BLUE EARTH RIVER

The following alternatives have been selected for tonight's discussion with regard to raising or relocating the C & N.W. Railroad Bridges and trachs over the Blue Earth River. Alternatives also include the Woodland Avenue bridge at the entrance to Sibley Park.

- Raise both bridges on present alignment.
- Stub end south track for storage, and retain present Woodland Avenue entrance Raise Mainline north track. to Sibley Park. 2.A.
- Moodland and Carney Avenues Raise Mainline north track, Stub end south track for storage, and replace Wood-land Avenue bridge between 7. B.
- land Avenue bridge entrance tracks for storage, retain and modify existing Wood-Raise Mainline north track on new alignment slightly north of existing tracks. Stub end both existing to Sibley Park. 3.A.
- 3.B. Raise Mainline north track on new alignment slightly north of existing tracks. tracks for storage, and replace Moodland Avenue bridge between Woodland Stub end both existing and Carney Avenues.

COMPGINITY INVOLVEMENT

and assembled regarding such items Extensive material has been and will continue to be collected as property ownership, community

points of interest, ecology, popula-tion and economic data, soils infor-mation, and existing and projected traffic volumes. services, existing and proposed land use, recreational and aesthetic

organizations and people living within and near the study areas will be contacted and encouraged to express their view as to which option is best Governmental agencies, civic for the community.

INFORMATION OFFICE

District, Corps of Engineers, has opened the project Information Office in Room 208, Northwestern Office Building, 209 South Second Street, Mankato. As of October 2, 1978, the St. Pau

The office will be open from 8:00 a.m. to 4:00 p.m., five days each week.

You are cordially invited to visit the office or phone 387-786 during business hours. The Corps hopes that interested persons will take advantage of the Information Office, to call, write, or stop by, to keep up-to-date on latest project developments.

NEWSLETTER

aailed periodically to residents and interested persons. A mailing list has been prepared. While this list is meant to be as complete as possible, some names may have been missed. If you didn't receive a copy, or know of someone who should be on the list, please let us know. Call or write A newsletter is published and the Information Office.

welcomed and we urge you to contact Written and oral comments are

EDWARDS AND KELCEY, INC

Company of the Control of the Contro

MANKATO, NORTH MANKATO, LE HILLIER

العائدة فالمرابطة ويتأمده والمتدارة العائدة والمادات المادات والمدارية والمدارية والمدارية والمدارية والمدارية

BRIDGE RELOCATION

PUBLIC INFORMATION MEETING

January 3, 1979

Roosevelt School, Mankato

conjunction with the Minnesota Department of Transportation, has initiated the informational meetings mining the location of the proposed new Main Street Bridge, the T.H. 169 Bridges and the C & N.W. Bridges over the Blue Earth River. to provide you the opportunity to participate in the process of deter-The Corps of Engineers, in

At this meeting, the study corridors were defined and the goals and objectives explained: to provide flood protection and to select alternatives that will best meet the transportation needs of the local communities for the year 2000, while considering such items as socio-economic and community traffic service and safety, project and road-user costs, the environment, and aesthetics. The proposed solu-Tonight's meeting is the second of a series of information meetings tion to be compatible with the Corps scheduled during the development of this study. The first meeting was used primarily to introduce and to inform you of the proposed study. of Engineers' on-going flood control impacts, engineering requirements,

ALTERNATIVES

cuss alternatives for two sites: T.H. 169 over the Blue Earth River and C. & Earth River. The alternatives to replace and relocate the present Main Tonight we will present and dis-N.W. Railroad Bridges over the Blue

Street Bridge will be presented at the January 24th meeting at North Mankato Jr. High School.

T.H. 169 OVER THE BLUE EARTH RIVER

sion with regard to raising or relocating the T.H. 169 Bridges and roadway over the Blue Earth River. The following alternatives have been selected for tonight's discus-

- 1.A. Existing Roadway Alignment, with provisions for on and off ramps to Minneopa Road to and from the south.
- 1.B. New Road Alignment slightly south of existing bridges, with provisions for on and off ramps to Minneopa Road to and from the south.
- Existing Roadway Alignment, with northbound off-ramp to Sibley Street and a southbound on-ramp from Minneops Road. 2.4.
- south of existing bridges, with northbound off-ramp to Sibley St. and a southbound on-ramp 2.B. New Roadway Alignment, slightly from Minneopa Road.
- River bridges on existing align ments with modifications to the Park Lane Interchange. 3.A.
- 3.B. River bridges on new alignments with modifications to the Park Lane Interchange.

MANKATO, NOPTH MANKATO, LE HILLIER
BRIDGE RELOCATION
PUBLIC INFORMATION MEETING

1

Jenuary 24, 1979

No. Mankato Jr. High School

The Corps of Engineers, is comjunction with the Ninnesotta Department of Transportation, has indicated the informational meetings to provide you the opportunity to participate in the process of determinant the location of the proposed new Main Street Bridge, the T.M. 169 Bridges and the C R.M. Bridges were the Blue Estile River.

Teaight's meeting is the third of a series of information meetings schemined during the development of this study. The first meeting was used primarily to introduce and to inform you of the proposed study. At this meeting, the study corridors are defined and the goals and objectives explained: to provide flood tives explained: to provide flood thest will best meet the transportation seeds of the local communities for the year 2000, while considering such years as socio-economic and community impacts, engineering requirements, and meathetics. The proposed solution must be compatible with the Corpus of Engineers' on-going flood control works.

ALTEDUATIVES

Tonight we will present and discuss alternatives for the Main Street bridge ever the Winnesota River. The alternatives to raise or relocate the T.H. 169 ever the Blue Earth River and the Earth River and Earth River were presented as the second information meeting on lan. 3rd at Roosevelt School, Menkato.

MAIN STREET BRIDGE OVER HINGESOTA RIVER

Six alternatives to replace and relocate the present Main Street Bridge will be presented at tonight's secting. The alternative locations are:

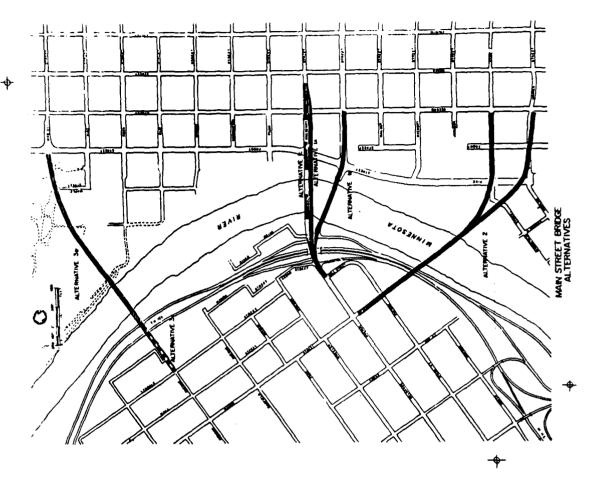
- 1.A. Belgrade Ave, to Mulberry St. with T.H. 169 passing over Belgrade Ave.
 - 1.8. Belgrade Ave. to Main St.
- 1.C. Beigrade Ave. to Mulberry St. with Beigrade Ave. passing over T.H. 169.
 - 2. Range St. to Cherry and Warren St. one-way pair.
 - St. one-way pair.
- 3.A. Montoe Ave. to Madison Ave.
 3.B. T.H. 169 at Montoe Ave. to
 Madison Ave. (No connection to
 Montoe Ave.).

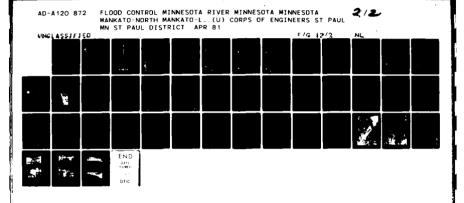
We invite your comments and suggestions to modify these alternatives or identify additional ones for consideration.

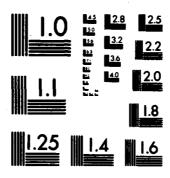
INFORMATION OFFICE

To keep up-to-date on the latest project developments, you are cordially invited to visit the information office in Room 208, Northwestern Office Building, 209 South Second Street, Mankato. Office hours are 8:00 a.m. to 5:00 p.m. Monday through Friday, or Telephone

EDMARDS AND KELCEY, INC







MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

REMINDER

To encourage the continuing community participation, two public meetings have been scheduled.

On Mednesday, May 30, 1979 at 7:30 p.m. at Roosevells School Gymnasium, W. 6th and Oustonns, Membato, the CAMW Railroad and T.M. 169 bridges over the Blue Earth River will be discussed.

On Thursday, May 31, 1979 at 7:30 p.m. at Mankato West High School Cafeteria, the Main Street bridge relocation will be discussed. Doors will be opened at 4:00 p.m. prior to each meeting to afford an opportunity to view the plans.

The editorial content of the Community Newsciercy is the responsibility of the \$1.4f of Edwards and Kelcey, Inc. Consultants. The newsletter is prepared and distributed by the Bridge Relocation Information Office and published under the auspices of the St. Paul District,

Information Office Address:

Bridge Relocation - Information Office Room 203 Sorthwevern Office Bidg. 209 South Sevend Street Marksto, Minnevata South Marksto, Minnevata South Markst Fire Ericles from 800 pm. to 5,00 pm., or oil informs 32,000

BridgeWRelocation

Mankuto - N. Mankata - LeHillier.

Number 8

Newsletter

May, 1979

Information Meetings Scheduled

PROJECT SCHEDULE

Public Information meetings will be held on May 30 and 31 to present descriptive data and har comments on the alternative bridge relocations which have been developed to meet the requirements of the ongoing flood control project. On Wednesday, Nay 30, at 7:30 p.m. at the Roosevelt School in West Mankato the T.H. 169 and GANN R.R. bridges over the Blue Earth River will be discussed. On Thursday, May 31, at 7:30 p.m. in the Mankato West High School cafeteria, the discussion will deal with the Main St. bridge relocation. To afford more opportunity for studying the plans and asking questions, the doors will be opened at 4:00 p.m. prior to each meeting.

and analyzed describing costs and social, economic and environmental impacts of each of the alternatives. These data are summarized in the following pages.

Additional data of interest to the public will be discussed at the public meetings. To aid in the decision process the public is encouraged to offer its comments on the relative impacts and desirability of the various alternatives, as well as to supply additional factual information it consulers important to the selection of the local alternatives. natives in January, data collection has been completed, alternative designs have been refined and impacts have been analyzed. Extensive data has been compiled Since presenting the preliminary alter-

Following the information meetings all of the impacts and public comments will be availated. The preferred alternatives will be identified and presented for formal public and official comment in the Draft Environmental Impact Statement which is planned to be circuisted early this autum. During the period of this review, about mid autum, a formal public hearing the hearing the public hearing the public hearing the public hearing sign studies, right of way acquisition and preparation of construction plans will begin. Construction is presently expected to begin in 1983. In brief, the schedule Upon approval of the Final Environmental Impact Statement, design studies and hear-ings will be conducted for the selected alternatives. After approval of the de-

Public Information Mtgs. -May 30 & 31, 1979 September 1979 File Draft Environmental Impact Statement is as follows:

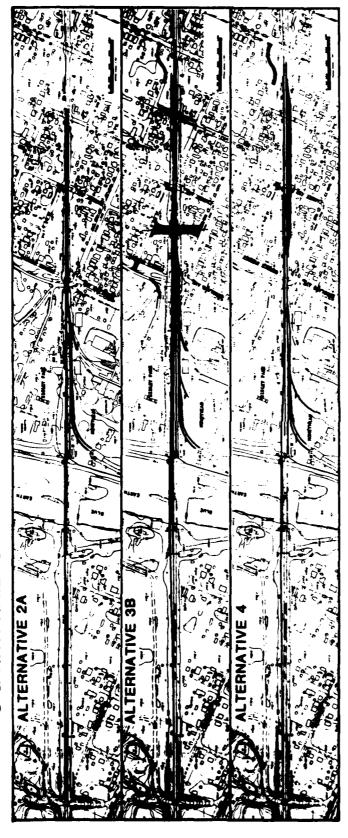
November 1979 January 1980 Spring 1980 Impact Statement (FEIS)-Design Studies 6 Hearings-File Final Environmental

1981 - 1982 Right of Way Acquisition and Construction Plans -

and the second section of the second second

C-20

C & N.W. RAILROAD BRIDGES OVER THE BLUE EARTH RIVER



ALTERNATIVES	ALTERNATIVE A	\$5,624,000 \$ 20,000 \$5,644,000 \$ 49,100	Main track would be raised approximately: 8 ft. at the river 5 ft. at Woodland Avenue 0 ft. at Mubbell Avenue	Railroad storage tracks would be located between Woodland Avenue and Hubbell Ave.	Retains existing Sibley Park bridge. Cuts off Carney Avenue and Sibley Street.
RAILROAD ALTEI	ALTERNATIVE 38	\$5,939,000 \$ 47,000 \$5,986,000 \$ 55,700	Main track would be raised approximately: 8 ft. at the river 7½ ft. at Woodland Avenue ½ ft. at Hubbell Avenue	Railroad storage tracks would be located between the river and Carney Avenue.	Provides new 1S' clearance bridge between Moodland and Carney Avenues. Cuts off Moodland and Carney Avenues and Sibley St. A pedestrian underpass is proposed at Sibley Street.
STICS	ALTERNATIVE 2A	\$5,549,000 \$ 10,000 \$5,559,000 \$ 74,400	Main track would be raised approximately: 8 ft, at the river 5 ft, at Woodland Avenue 1 ft, at Sibley Street	Railroad storage tracks would be located west of Woodland Avenue and west of the	river. Retains existing Sibley Park bridge. Cuts off Carney Avenue.
CHARACTERISTICS		CONSTRUCTION COST RIGHT OF WAY COST TOTAL COST MAILHOAD ANNUAL OPENTING COST FAMILIES DISPLACED	OTHER CHARACTERISTICS	OTHER ALTERNATIVES STUDIED	Alternative 1, raising both tracks in their existing location, and other alternatives studied were felt to be less desirable than the three presented herein.

Newsletter Nevember, 1979

Public Hearing Rescheduled

Quality recently changed its regulations of the preparation of Environmental Impact Statements. Because of these changes, it became recessing to revise the Environmental Empact Statements being prepared for the bridge released to the bridge of the breaking of the Preparation of the secessary reports. As a result, the project schedule has been changed and the filling of the Break Environmental Impact Statement and the Public Mearing have been rescheduled to next Spring. The Pederal Council on Environmental

PROJECT SCHEDULE

The impacts of the alternatives and the public comments are being evaluated. Three alternatives are being considered at the Chicago and Northwestern Railroad crossing over the Blue Earth River, two at the T.M. 1895/60 crossing over the Blue Earth River and two for the replacement of the Wain Street Bridge over the Minnesoca River. These were described in the May newsletter and were presented and discussed at the public information meetings May 30 and 31, 1979.

TANK .

The preferred alternatives will be identified and presenced for formal public and official coment in the braff Environmental limpact Statement, which is planned to be circulated in the early Spring. During 1980, a public hearing on the project will be held. Following the public hearing the Final Environmental Impact Statement containing the recommended alternatives will be filed. Upon approval of the Final Environmental Impact Statement and filling of the Necord Obcision, design studies and hearings will be conducted for the selected alternatives. After approval of the design studies, right-of-way acquisition and preparation of construction plans will begin. Construction is presently expected to begin in 1983. In brief, the schedule is as

Tire Diet Chatements	thrush 100
Public Hearing	April 1980
File Final Environmental	
Impact Statement (FEIS)	June 1980
FEIS Approval & Record of	
Decision	Fa11 1980
Design Studies & Hearings	1980 - 1981
tht-of-Way Acquisition	
and Construction Plans	1981 - 1982
start Construction	1983

PAID PERMIT NO. 470 MANKATO, MN 56001 BULK RATE
U.S. POSTAGE

Bridge Relocation

INFORMATION OFFICE

Because of the delay that has occurred, the project information office has been temporarily closed. However, it will be responsed for the forest favoremental Impact Statement is filed and will be open during the period surrounding the Public Hearing. An announcement will be used at the time of this reopening. In the interim, questions and comments may be addressed to the telephone (507)625-4428

or telephone (507)625-4428

The editorial content of the Community Newsletter is the responsibility of the staff of Edwards and Kelcey, Inc., Consultants. The newsletter is prepared and distributed by the Bridge Relocation Information Office and published under the auspices of the St. Paul District, Corps of Engineers.

CORRESPONDENCE

11. 1. 1916 10 70.40

TRANSPORTATION COMPANY CHICAGO AND

ASSISTANT DIVISION MANAGER January 16, 1979

Mankato - Flood Control

for the Comment

CHICAGO AND

TRANSPORTATION COMPANY

G. H.Stuat

January 23, 1979

ASSISTANT DIVISION MANAGER ENGINEERING

Mankato - Flood Control

wokent Clark

- C. M. S. Jantes, West Homeson •

Project Manager Edwards and Kelcey, Inc. Mr. Thomas E. Wetmore

Minneapolis, Minnesota 55435 4930 West 77th Street

Dear Mr. Wetmore:

In response to the second paragraph of your January 5, 1979 letter re-garding the current study now underway for the relocation of our tracks and Blue Earth River bridges at Manhato, we have developed a prelimin-ary plan in which storage tracks sufficient in capacity to serve our needs could be constructed easterly of the Blue Earth River.

which I have shown in red color new or relocated tracks and in yellow tracks to be removed or relocated. This plan would be applicable to your Alternative 2A only since retention of an underpass at Woodland Avenue is required. A reconstructed structure at this location would consist of two separate superstructures—one to carry the main track and one to carry the storage track and Honeymead lead track. The rea pertain between the main track and adjacent tracks. This physical feature also requires a retaining wall of considerable length extendon for this is the considerable difference in elevation which would I am attaching a print, dated January 15, 1979, of such a layout in ing from the river to Sibley Street. This plan has features which are advantageous to this company, namely, an ideal gradient east of Woodland Avenue, ample storage capacity in close proximity to Honeymead, and a track arrangement which permits flexibility in switching. The feasibility of this plan is dependent upon the change in street grades which can be made at the Woodland Avenue underpass since the elevation of the two tracks serving the industry will remain at or very close to the present track elevation.

I am reserving comment at this time on the remaining items discussed in your January 5 letter and hopefully will be in a position to reply in the very near future.

Very truly yours,

s. Ş. A. E. RUEHL

Manager Maintenance Planning

275 EAST FOURTH STREET / ST PAUL, MINNESOTA 55181 812/221-9317

Reproduced from best available co

Hinnespolis, Minn. 55435 Project Manager Edwards and Kelcey, Inc. Mr. Thomas E. Wetmore 4930 West 77th Street

Dear Mr. Metmore:

Please refer to your January 5, 1979 letter regarding the construction of a pedestrian bridge across the Blue Earth River at Mankato in connection with the Mankato Flood Control project.

by outside parties is not unusual and generally covered by our standard form of license. Your proposal to attach a pedestrian bridge to the superstructure of our bridge presents a somewhat different situation which if carried to conclusion requires an agreement, drafted for this particular situation, between the Transportation Company and the City of Manhato. Such an agreement would cover the agreed upon ownership, maintenance responsibilities, distribution of maintenance costs, and liability, as well as the construction cost responsibility. I am reluctant at this point to state which party—whether the Transportation Company or the City—should draft such an agreement, preferring to defer this decision The occupation or crossing of our right-of-way by facilities owned until such time as actually necessary.

party other than this Company, the final plans being subject to our approach.

approach. Our Exided Department in Chicago would, however, provide input upon request. I'm certain any pedestrian bridge structure to be attached to our superstructure will have to be designed and constructed in such a manner as to prevent and discourage the public from trespassing onto the railroad bridge proper whether at the bridge ends or from any intermediate point on the structure. Design work would have to be performed by and at the expense of a

Pery truly yours,

A. E. RUEHL Manager Maintenance Planning

Mr. Robert Penniman :

U. S. Corps of Engineers 180 E. Kellogg Blvd., St. Paul, Mn. 55101

Mr. H. D. Hahn (att.) (att.) Mr. R. H. McDonald Mr. J. B. Ragsdale

Mr. J. W. Heidkamp (Att.) 275 EAST FOURTH STREET / ST PAUL, MINNESCYA 15101 612/221 9317

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CHICAGO AND 1

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TRANSPORTATION COMPANY

Pehrusry 20, 1979

NORMANT VICE PRENDER!

RECEIVED

FEB 21 1979

EDIMMES A KELCEY

Project Manager Bhards and Rolcoy, Inc. 4930 Note 77th Street Elemengolis, Himmoots 55435

+ AIF + I have hem apprised of your firm's participation in the Preliminary Zocation Study Report for the proposed relocation of our like farth bridges at Machato, Mismasch and have raviseme the five alternatives submitted in your Jamess's 1979 letter. I have also reviewed the sitth elecantive submitted by our Engineering Department which was formarded to you on Jamesry 23, 1979.

porterion Company is a seventh alternative as shown on the attached print dated Pahrnery 16, 1979. The frack grandown which would apply for Make Jayour are rearly ideal and vould permit as to serve Boneymend settly and esticiently, whereas the prede which would partain in the minital five alternative special control of decreases and settled to as sequetive operational Ampart in querings and autiching care for the influstry. the first preference of the Chicago and Worth Western Trans

C-25

the seventh alternative also parmits a seve bridge to but the sevented over the Blue Earth Rivar exthout interference to our tasks apprecions.

fours truly,

At Sant

R. H. McDOWALD Assistant Vice President & Division Manager

~ 412/File

TRANSPORTATION COMPANY

CHICAGO AND

March 15, 1979

AFE 86033

redistant officer makaber Erginetrins

RECEIVED

MAR 16 1979

EDWARDS & KELCEY

Mr. Thomas E. Networe Project Managar Edwards and Kalcey, Inc. 4930 West 77th Street Minneapolis, Minneante 55435

Dear Mr. Networe:

We have reviewed the proposed profile for Alternative 4 which was transmated with your March 13, 1979 letter and have the following communts.

- 1. The vertical curves at each end of the Blue Barth River bridge should conform with the AREA specification, copy attached. You may use for our main track the rate of change in gradient applicable to econdary main tracks which with a 0.6% grade must of the river requires a wortical curve at least 300' in length versus the 150' long curve aboun on the current profile.
- Remaining portion of the profile indicating a 0.6% douegrade towards Hubbell Avenue is matisfactory, however, the vertical curve at this location should also conform to the AMEA requirement outlined in the preceding paragraph. ~
- The 0.0% grade shown for the proposed storage tracks is satisfactory, however, with the raduced requirement for vertical curve language on and continue this gradient assets!

 Language or and continue this gradient assets!

 Language tracks without the turnouts, and thus obtain additional level storage tracks without distrupting the 0.6% and track grade or the language of retaining well required between main track and yard track. This is a possibility which can be considered in the development of plans beyond the praise. **.**
- In response to the final paragraph of your March 13 letter, our maride Engineer in Chicago advises he is familiar with the reinforced earth construction mathod and has no objection to the introduction of this type of construction into the plans. Final approval, however, is reserved pending examination of detailed ÷

Very truly yours,

1.1.1.11

Ass't. Division Manager-Engineering H. H. CLARK

275 EAST FOURTH STREET / ST. PAUL, MINNESOTA 59101 - 612/221-9317

AND REFINESS SESCING AGBICCITUDE AND INDUSTRY

SOVERAN PROCESSORS

JANUARY 8, 1979 DATE:

JAMES H. AML 1E ..

ELMER K. IKIER FROM: PRIVATE SIDING AND OUTSIDE SWITCHING SURVEY, H. L. STUART **8**

ON THE FIRST PAGE REFERENCE IS MADE TO 300 CARS IN OUR FLEET, LEASED PREET). ON THE OUTSOLN'S CARS, A RECAP OF THE SAME PERIOD, SHOWS WE USED 39 RAILROAD CARS, A RECAP OF THE SAME PERIOD, YEAR TO APPROXIMATELY II.8F.

CN PAGE 2 CALCULATIONS ARE MADE TO ARRIVE AT AN AVERAGE FIG RE.
SHITS HOULD BE POINTED OUT THAT A CALCULATION OF THIS TYPE RE.
SHITE IN A FIGURE THAT DOES NOT TAKE INTO CONSIDERATION THE CATURY.
BAY AND SUNDAT SLAGE IN RAILROAD FAR LOADINGS OF COVERED HOPPERS.
WITH SCYBEAN MEAL AND THE DROP IN GIL LOADINGS IN TANKCARS ON NUNDAYS.

SEVEN DAYS PRANCERFH ON PAGE TWC REFERS TO PLANT OPERATION OF SEVEN DAYS PER WEEK BUT CARS ARE SILLED FIVE DAYS A WEEK AND SUGGEST-ING INCOMPLETE BILLING OF CARE TO ENCOURAGE MOVEMENT OF CARS FROM PLANTO. WHALE THIS WOULD SETM A GOOD SUGGESTION, CONSIDERATION DOES USED BY OUR PEOPLE.

IT WOLLS APPEAR THAT THE CENU KALLMAY DRAWINGS PROPOSED BY
POARES AND RELETY, INC., PTB OF 17. SHOULD ADEQUATERY SERVE OUR NEEDS
FOR THE IMMEDIATE PRESENT. CONSIDERATION HUST BE GIVEN TO AN INCREASE
IN OR O'LL REFINING CAPACITY, MICH WILL PROBABLY BE MOSTLY RAIL
ANTITUTE O'S IN MURE I MAKARS INSOME AND SIX MORE TANKCARS OUTBOUND
PER DAY. CONSIDERATION SHOLLS AND STANDED THE PRACKASE ON
THE WEST SIDE OF THE BLUE ARTH POALS TO PETAING THE TRACKASE ON
THE MEST SIDE OF THE BLUE ARTH POALS TO STORAGE OURDUSES. WITH
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AND WALROAD SERVICE CONSIDERATION MUST SECUPTION TO THE SUBGES OF
ACCULLATIONS OF LAMPS THAT RESULT. THEY OFFEN COULD BE A NEED FOR 79 OK 12 ALTERNATIVES. 33 6r3h

SINCEPLIV,

Honeymend

JANUARY 11, 1979

H. L. STUART SENIOR RAILROAD CONSULTANT WYER, DICK & COMPANY B PARK PLACE NEWARK, NJ 07102

DEAR MR. STUART:

AFTER CLOSE CONSIDERATION OF YOUR LETTER OF DECEMBER 7, 1978, AND THE ATTACHED SWITCHING REQUIREMENTS DOCUMENT, OUR TRAFFIC MANAGER, MR. IKIER, RELAYED TO ME SEVERAL OBSERVATIONS WHICH HE SUGESTED MAY BE HELPFUL TO YOU IN YOUR ANLYSIS. THEREYORE, I AM INCLUDING A COPY OF MR. IKIER'S LETTER TO ME FOR YOUR CONSIDERATION.

HONEYMEAD APPRECIATES THE OPPORTUNITY TO BE INVOLVED IN THESE EARLY STACES OF THE PLANNING. IF WE CAN BE OF FURTHER HELP IN ANY WAY PLEASE LET US KNOW.

HONEYMEAD PRODUCTS COMPANY

SENIOR VICE PRESIDENT MANUFACTURING JAMES H. AMLIE

RECEIVET.

WYER DICK & CO

CW111173

Reproduced from best available copy

WYER, DICK & CO. TRANSPORTATION CONSULTANTS

January 19, 1979

Mr. James H. Amlie Senior Vice President Manufacturing Honeymead Products Company 720 Minneopa Road Mankato, Minnesota 56001

Dear Mr. Amlie:

Thanks for your letter of January Π enclosing Mr. Ikier's observations on $\mathbf{m}_{\mathbf{y}}$ analysis of private siding and switching requirements.

I will run Mr. Ikier's figures and observations through my analysis to determine their net effect quantitatively. We can discuss it when I am next in Mankato.

Very truly yours.

H. L. Stuart W. C. Stuart

HLS/fr

bcc: Mr. T. Wetmore

TO BOUTH ORANGE AVENUE LIVINGSTON NEW JERSEY 07039 (20): 994-3484

NEWS CLIPPINGS

M. Romain / Speter Michigan / Kill

Office to explain bridge changes

Minnespalls created the. a Minnespalls created for the will conside a Mandato office to be publicly discuss cleaning over the Minnespalls and Minnespalls with the Mandato New Mandato Mandato Mandato Mandato Mandato Mandato

The effice will explain the options is been eithers and listen to be edition's ideas, according to a designment released today by the U.S. Army Corp of Englament, which is in charge of the

Modewater project

Objectives are to determine the best position for the Main Breet bridge over the Minnessen River, the replacement or residue of the two Highway His bridge over the Rights and two Chicago North-washern reflected bridges over

ganice public information meetings and hearings. It will also frequent an environmental impact statement, expected to be completed in toda a year. Anyma wishing to receive a neveletter and amountements

strage traffic to be surveyed

Street, Magney 15 and Highmatch River, and the Minmatch River, and the Min-160 Eridge over the Magney 13 160 Eridge over the Magney 13 160 Eridge over the Magney 160 Eridge over

Mirror Dridge beginning the Tourist of His Committee of H



before new bridge becomes reality Years of study, planning ahead

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These Press all Writer.

These was the Barge was despanning bridges. The its paint,

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"It was the saidest we could

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said these desires the brigge is

said these desires who is now

project information officer for

one of the saidmenting commit
said the saidmenting committee of

Determining the heretion and

design of a new bridge will take

It is and two press.

That has myntified some observers who receil that Manlating the hard of the standy leaded toward construction of a causeway that would have connected
Medical Areas in North Manlatio with the intersection of
Broad and Mulbarry streets on
the Mankato side, angling north
habout one block from the span of
the current bridge

But that study jeefformed by
one of the furms which is back
for this round has been helived
the favor of a Similion effort
that will survey several area
bridges to be altered or rebuilt
as connection with the U S
Army Corps of Engineers Prod
Control Proper.

The research underway is supposed to cover everything from
what sequalic creatures will be
differed by construction to the
travel bablits of local commulers. The studies are lougunderwritten by the Corps
for a structure to replace the
current Rain Street Strafge.

• Beigrade to Mulberry The IIIT preference is fivored by many because it would divert heavy traffic awy from positive bottlenecks at the Region al Liberry and the new Holiday line and give drivers a block longer to also before merging with downtown traffic it? the best possibility we see right now. Berge said 'But we don't want to give the impression that anything's been decided yet."

Rebuilding the bridge at its current site, which would mean the exusting bridge would have to be demolathed; severing the main link between the two down. See NEW BRIDGE (Please turn to Plage 8)

New bridge

....

towns during construction

Connecting Range Street with the Cherry-Warren one way pair in Mankato, south of the current bridge.

O Connecting Monroe Avenue
in North Mankaou with Madkson
Avenue on the east side of the
river, which would move the
bridge several blocks north at
its current locations north at
its current locations north of
the only structure achedited for
replacement. The van Highway
189 bridges will have to be
rissed to simpount the the flood
control propect's eastwing and
proposed levees and floodwalls
and the Blue Earth River in
Allier.

In addition, the Chicago and Northwestern Transportation (Company's bradges over the Blue Earth River will have to be altered to felet the extuing and proposed flood barriers. In the Corp's estimation, the existing bradges added to the high waters upstream in the

white. Some drivers on the Main were going to be maggind by the collections were more than collections were more than collections were more than collections white a series of their was a series white were their was series and "peaper are no axious for a new bridge they." If do not the waste were Dr. Berge to shaping for a 4-percent response. It danked Sust they can be waste were Dr. Heavy Quade, a Mainkale Sust University belonged, and gradue he suddent Kerin King. They were gathering masterials that will be used in a stady of how sequents. He will be added, and gradue he suddent Kerin King. They were gathering masterials that will be used in a stady of how sequents. He will be affected by bridge construction Quade to be presented in an Environment. The results will be revenue bridge proposals on the everyoment. The results will be bridge of the sudder of the Minnesota Erwin Someral Quality Courci be clayed.

Alternor Scatement they will be involved to the U.S. In Ferrar Scatement a Merce of the theory will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will be involved to the U.S. In Ferrar Department they will with their submerging the flow with their submerging disports. Purther: the bridges must be heightened because the dake will prevent flood waters from spilling over the above. Thus, floodwaters could be pashed up, word because of the antrover channels the dikes will pose. Perhaps the most noticeable last week was the college this deem surrained over cars on the Main Street Bridge with communer questionaire. Or possibly, the two fellows in the Main Street Bridge with communer spilling in the thailtows underneast the bridge friets morting You were witnessing the wagaard of the air sorted studies. The questionaures are being the act bridge out to get an idea of traffic patterns, which the bridge planmers are bridge out to communers on all the area bridge out to communers on all the new bridges.

The survey which will contine the new bridges.

In one to the public too will get its any so at information meetings and hearings scheduled to begin in mid-November. A public is formation of titler has been opened at 300 South Pront St. 1677-1800 by Rise-Carroll Multer Associates, inc., Manikab, which is the firm responsible for the traffic survey and other data collection Echandale for the traffic survey and other data collection Echandale for the traffic survey and other ey. Inc., Mannespolia, wheely performed the 1973 study, as respectively. The Blood is settle project the special project the study of the work The forest of season. The flood is study and 1986. About 60 month in 1973, after devestable floods in 1973 and 1986. About 60 deves in scheduled page 90 percent of the work The federal government of the work The federal government of the cost, which wall is challed to page 90 meetings.

1



Choosing of site for new Main Street Bridge 11/2 years away

About, 80 people turned out wednesday night to hear from engineering firm representations of Engineers that it will be it will be at least 1 by years before a final site is choose for a new Main Street Bridge linking Mankato. Officials dispelled a notion held by several people that the site for a new bridge has altready been choosen A 1973 study recommended a causeway that

Avould have connected Belgrade
Avenue in North Mankabo with
Mulberry streets in Mankabo
Mulberry streets in Mankab

... securon, us suvoy consus-ers altering the twin Highway 169 Bridges and Tailroad bridges to clear the flood walls planned by the Corps along the Blue Earth River south of Manhako

This is the first of several informational meetings we'll be holding." said Odin Berge.

bridge project information officer, who was flanked by project
supervisor Bob Penniman of the
Corps and Marty Romano, and
ficial with Edwards & Kelery,
lic, the Minneapolis litim that
line, the Minneapolis litim that
performed the 1873 study and
now is overseent the new
effort.

Several people spoke for and gainst proposed locations for a

against proposed locations for a new Man Street Braffer.

They brought out points that we wall consider very thorough.

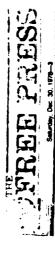
Iy. Berge said.

Other factors in the site consideration are traffic patterns environmental impacts and fand cost and availability.

A survey of drivers crossing the rays was recently completed and is being analyzed to determine traffic flow and

An environmental survey is underway to study how aquatic life will be affected by

constructions of the paths of the four alternatives will be contacted within a few values to determine land values to determine land values to the land design of a new bridge fore final design of a new bridge is so complete and proba biy four to five years before a bridge is activable buil, according to the project timetable and propert timetable will according to the project timetable and will be scheduled in early December. Berge said



to discuss bridge options Corps of Engineers plans

A public meeting will be held Jan 3. 7 to p.m. as Roosavell Elementary Schuel. Stath and Owatonna street, lodiscuss the relocation and reconstruction of the twin-Highway 198 bidges over the Blue Earth River near Honeymead. Inc. the US Army Corps of Engineers and Friday.

The corps and representauve front two private regimering firms will also discuss the
site of the mearly clucage and
Northwestern Transportation
Company Bridges over the Blue
Earth and nawer questions
about other bridge retocations
in connection with construction
of the flood control proyet
Further: the results of a recent traffic study of patronage
of exatula bridges across the
Municosts and Blue Earth reers will be released and
interpreted
It will be a released and
interpreted
It will be a released or a
further and site is chosen for a
forw Man Street Bridge lunking

Manhato and North Manhato, it was barned last month Several locations are being considered as part of a sit million study examinant trailing statems, environmental concerns and relocation costs.

Studies of how aquatic life would be affected by construction are underway and property owners in the paths of the four alternative sites will be confacted in coming months.

The proposed sites under consideration are Belgrade Avene in North Mankato to Mulberry and Broad attrests in Mankato, Range Street in North
Mankato to the Cherry Warren
one-way streets in Mankato
Monree Avenue in North Mankato to Medison Avenue in Mankato, and buildang ane- at the
current Main Street Bridge
location

For more information call the bridge relocation information office at 387-7860.



Bridge, dike options threaten homes

and street proposals explained Weekendags milk by Manhalo Areo Bend control effects. The proposals would after the High way it is Brodge over the Blue Barth River and reservate the Park Lane untervhange to the

The two haddway bridge near heart and the bearing and bearing a second to the food wall planned for that street to clear of the food wall planned for that street of the reve at the A part of the reveast truction. a line mapped are prepared from make the form the prepared to the truck the form and the food adjacent to the food make to the food adjacent to the

highway
Thomas Wermore, manager
Thomas Wermore, manager
of the highway project and
register w. Schards and Kei
ery, lie and however that no
estimate of cost the amount
of property taking has been pre
pared yet under the various

Representatives of Edwards, sending regards requesting form and the U.S. Army Corps of Engineers which is to overseeing the entire \$66 million plats flood cut being \$60 million plats flood cut being server told that based on cutern comment surveys of neighborhoods affected by construction and estimated seconomics.

view in April, along with further consideration of a new Main Street Bridge site Sibley Part One Mound Ave has treated and the leared of the treat additions would in crease anose from the Honey meede Products. Or plant 720 Manneopa Road A man said he wasted assurance that his claim of the could asslely cross the tracks to astered scool of the honey of the second asslely cross the tracks to astered scool of the honey and the parameter in designing the reconstruction work and that are even in and on Subley Park should

The following alternatives were proposed to fase and relocate the twin Highway 169 bridge near Huseymead Prud

 Maintain existing roadway alignenent, with an on-and off ramp to Minneopa Road to and from the south. Northbound traffic would exit over the free way, emplying into Minneopa on the other safe 1A similar proposal would move the bridge, and road alignment alightly south of the existing bridge process. signs and associated costs at a public hearing in April, officials said

uves and answer your points with changes in design. Wet more added "We will draw them up and develop all of the impacts" for the public to re-"We will refine the alterna

Meep the existing roadway alignment, with a northbound of ramp to Sobey Street and a southbound on ramp from Mn meopa Road A similar proposal would use the same on and off

ramp locations but would shift the road and bridgeway slightly from its present course

PRES

REE E

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Vol. 82 No. 288 32 pages 4 sections plus aupplement Tuesday, March 13, 1979, Mankato-North Mankato, Mirrn. 56001

Leave the existing alignment alone or shall it slightly, but would make major middling tions at the Park Lane inter-change-substantially expand ing the sate of the entrance and existents. This proposal would require that the YMCA an oil station and a drive in restau-rant for removed.

The options on rassing the rail raid bridge one which would close the Woodland Avenue entrance to Sibley Park and place a new entrance about one half block to the northwast. natives are on view at the bridge information office from k a m to 4 p m weekdays 209 S. Second St. 387 7860

the Munnesota River, LaPoint said host cities slong the over are expected to surpass flood stage

are respected to unstana flood states could be caused because the additional problem in Mankatio could be caused because of the confluence of the Minnesota and Blue Earth neers. LaP onit and II they both peak at the same time it could meas trouble.

An updated flood forecast from the weather server as en-peried by Friday. The weather servers used the variables in trying to forecast floods and monsture, frust perietration indea from other serve append of the snew melt and perietration indea from monitors in about mormal on event a little before nortical soil monitors in about mormal on event a little before nortical tiered devisating floods last spring, again suffers from eacep-ternally high soil monitors.

Frost perfectation is light throughout the state floor is become annowed by any to November and acted as a ground taxulated the Snow monitors levels or serve pack are on the high safet.

Snow monitors levels or serve pack are on the high safet.

If the snew melta quetalty it could create reprota problems. La Point and I fee jans caused by thruk the creept of a rapid breakup could be lad the "I according to the weather therefore "Prenty inches on an. " co-rain on the ground today in Manhale Precipitation as ext. Ycted to be at least normal for Markin. An.

Precipitation is exp. cued to be at least normal for March, ac-cording to the weather service.

"If we get no main, that would be take." LaPoint said, no death holding has breath and crossing his fingers.



Aural Mankato abould be in for at least inciderate flooding this spring and some highways will be under water arcording to the Army Corps of Engueers and the National Weather Service in Minnepolas

If no more precipitation were to fall between now and the apring than, the Minnesota River in Manhato would creat at 25.5 feet, according to the weather service. Plead stage for the niver is tisted at 19 feet.

Assuming that another 1.5 inches of precipitation falls which would be considered a "normal" amount, the creat would be raused to 26 feet.

The record stage came in 1985 when the river reached 29 I feet in reached 77 I feet in 1989 and 26 Lin 1981, according to Lar record its december of the feet in 1981 according to Lar recording to Larvar necessary fooding the last larger to Corps with the Corps with the Corps with the Larvar possible highway flooding it has also met with officials in the other retres located along its has also met with officials in the other retres located along

18 FINES MAY 25, 1979 THE FIREE PRESS, MANKATO

4/18/17 The Free Press, Menke to



Testing

Dr. Henry Quada, Ieff, an MSU biologist, and graudite shukeri Korin King, shuky a 'sembler' conteiner which has been in the Mitmascola River for 22 days. It will indicate inteact the trut action there. Quada to also shufying the composition of

the water and river bottom to help determine what effect construction of a new bridge have on the aquetic environment. He has been of 18 researchers who are compiling

Bridge hearings next week

Public hearings on relice altun of Merketa, area Pringes in cream purction with the fined control project on the Minnes as and project on the Minnes as and Blue Earth rivers have a scheduled for the nights of May 10 and 31 the US Army Corps of Engineers has anneutred. The public may comment on the proposed sites for the CEAWW Railroad Bridge and Highway in 18 twen bridge over the Blue Earth River at 730 pm. Hearth River at 730 pm. Annual River Mankato West High School Schoo

Man New Brings or e along the distribution of the control of the c

C 53

STATE AND FEDERAL AGENCY CONTACTS

Letter and project map sent to the following:

United States

Department of the Army, Corps of Engineers Department of the Interior, Fish and Wildlife Service Department of the Interior, Bureau of Sport Fisheries and Wildlife Department of the Interior, National Park Service Department of the Interior, Heritage Conservation and Recreation Service Department of the Interior, Geological Survey, Water Resources Department of Commerce, Economic Development Administration Department of Agriculture, Soil Conservation Service Department of Transportation, Federal Highway Administration Department of Transportation, Federal Railroad Administration Department of Housing and Urban Development Environmental Protection Agency Water Resources Council, Upper Mississippi River Basin Commission Advisory Council on Historic Preservation Department of Transportation, Urban Mass Transit Administration Department of Transportation, Coast Guard

Minnesota

Department of Transportation
Department of Natural Resources
Department of Agriculture
Department of Economic Development
Department of Public Safety
Department of Public Service
Department of Health
Historical Society
Pollution Control Agency
Water Resources Board
State Planning Board
State Planning Agency
Environmental Quality Board
Energy Agency

Thomas E. Metmore, P.E. Project Hanger, Edwards and Kelcey, Inc. 4930 M. 77th Street Minneapolis, MN 55435 ق

Name of Organization/Agency Luise State De PART MELLY OF FIGURE NAME OF PRINCE SALE SALES AND ACCURACE Po. Bus ,327 Zip Code 5 400 1 Position or fitte _____ ISPECT CONSERVATION Address 432 Beine Mar Main Telephone Number 507-34-7-4651 -4652 CITY-State MANK BIC, MM

-4653

-4654

To: Thomas E. Wetmore, P.E. Project Hanager, Edwards and Kelcey, Inc. 4930 M. 77th Street Minneapolis, MM 55435

NAME OF OFFERNIZATION/Agency 11,5 DEPT of WELSINGOOD WERSIN TOURTHOUT Position or Title DWIEDHMBJTAL CLEASANCE CATICER 21p Code 55435 Name of Person to Contact WALLAM MIDINETINA Address 10400 FRANCE AVE, 50. Telephone Number 725-4724 City-State MP. D. M. M.

News Letter 10/3

DEPARTMENT OF TRANSPORTATION UNITED STATES; COAST GUARD

Commendia, officer
U. S. Coast Guard
Harine Safety Office
P. O. Box 3428
St. Paul, PM 55165

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EDYARIS & RUCES

Mr. Thomas R. Wetmote, F.E.

GEORGE STATES Sec 11, 239

Project Manager Edwards and Kelcay, Inc. 4930 W. 77th Street Minnespolis, MM 55435

Thomas E. Wetmore, P.E.

ë

Project Manager Eduards and Kelcay, Inc. 4930 W. 77th Street Manespells, MF 55435 Dear Mr. Wetmores

This is to acknowledge your letter of 12 September 1978 concerning a contract with the St. Paul District Corps of Engineers for the preparation of Design Nesscradum No. 8, Bridge Alterations for Flood Control.

I am the Commanding Officer of the U.S. Coset Guard Marine Safety Office and cam act as liaison between your firm and my district office's Bridge Branch. Mr. Stamley Thoroughmen, Chief of the Bridge Branch, and his staff cam provide you with a list of the required reports, etc. Mis staff will also be reviewing any actions concerning alterations, deletions or additions to river crossing structures. A copy of your letter and enclosure has been forwarded to the Bridge Branch.

Saciosed find the completed enclosure to your letter for Hr. Thoroughman and myself. If I may be of any further assistance, feel free to contact me.

Sincerely,

Commander, U.S. Coast Guard Commanding Officer Minnespolis/St. Paul, MN Marchan

Encl: (1) Address Sheets

Copy to: CCCD2(obr) (less encl)

New Little 4/3 (3)

CDR, USCG, COPPANDING OFFICER Zip Code LOON Z. KATCHARIAN U.S. CCAST GUARD P.O. BOX 3428 Telephone Number 612-725-7452 ST. PAUL, 181. Name of Organization/Agency Name of Person to Contact Position or Title City-State Address

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DAPARTMENT OF THE ARMY
ST PAUL DISTRICT CORP OF HOMERS
IND U B POST OFFICE & CUSTOM HOUSE
ST PAUL MINNESOTA SSIST

DWARDS . ALL:

RECEIVED 5£P 23 1978

21 September 1978

MINT IS MINISTER W: NCSCO-CON

Amardo J. Romano Project Director Edwards and Kelcay Inc. 4930 M. 72th St. Himmespolls, MM 35435

Dear Mr. Romino,

I would like to place our office on your meiling list for receipt of neusletters and announcements concerning the bridge relocation project in Hambato. Being a construction office, we accelime lose touch with the pipaning and design aspects of the project, and have recently received memorous inquiries about the bridges. Looking forward to your local office opening and our association with your Representative here.

Captain, Corps of Engineers Hankato Office Enginer 503 Hange Street Mankato, Minnesota 5000)

317-2213

Organization/Agency U.S. Environmental Prote Person to Contact Clarence C. Oster	Organization/Agency U.S. Environmental Prote Person to Contact Clarence C. Oster or Title Director	Name of Desaultation/Agency U.S. Environmental Protection Agency - Mostern District Name of Person to Contact Clarence C. Oster Position or Tille Director Address 7401 lyndale Avenue South
Name of Person to Contact Charence C. Oster	tion or Title Director	of Person to Contact Clarence C. Oster tion or Title Director cass 7401 Lyndale Avenue South
	Position or Title Director	Position or Title Director Address 7401 Lyndale Avenue South

Trust to. 11/3

Thomas E. Mermore, P.E. Project Manager Educates and Kelcey, Inc. 4930 M. 77th Street Minnespolls, MM 55435 ۊ

Name of Organization/Agency Economic Development Administration.

Mane of Person to Contact Stanley J. Pechaver

Position or Title

Address

Economic Development Representative

Room 104, Federal Building, 316 N. Robert Street

Zip Code _ 55101

Telephone Number (612) 725-7124 City-State St. Paul, Minnesota

Note:

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Thomas E. Wetmore, P.E. Project Manager Edwards and Kelcey, Inc. 4930 W. 77th Street Minneapolis, MM 55435 ë

SEP 25 1978

EDWARDS & KELCEY

Name of Organization/Agency Urban Mass Transportation Administration 21p Code 60606 Name of Person to Contact Thomas A. Podraza Position or Title General Engineer Address 300 South Wacker Drive Telephone Number 312/353-2883 City-State Chicago, Illinois

Currently meither Blue Earth County nor Micollet County are designated redevelopment areas under the Public Morks and Economic Development Act of 1965, as Asended. Thersfore, public works projects in these areas are not eligible for financial assistance through the Economic Development Administration.

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RECEIVED : SEP 25 1978

EDWARDS & KULEN

Thomas E. Wetmure, P.E. Project Manager Edurated and Ketery, Inc. 4930 W. 77th Street Minneapolis, MM 55435

Hinnesota Vater Resources Board

Name of Organization/Agency

NAME of Organization/Agency Hims esota Pellutier Callel Agency

Thouss E. Wetdore, P.E. Project Manage. Elastida and Kelery, Inc. 4910 M. 71th Street Maneapolis, MM 55435

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Position or Title Water Guality Coaledinated

Address 1835 Wast Gounty Roun City-State Reservit Les Mina

Telephone Number 612-296-7215

Name of Person to Contact Cliffeed And orse

St. Path Chimesote 55102 Executive Secretary 555 Wabasha Street Erling N. Weiberg Name of Person to Contact Position or Title City-State Address

043C-96C

Telephone Number

Room 206

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Thomas E. Wetmore, P.E. Project Hanager Eluards and Kelley, Inc. 4550 W. 77th Street Hinnespolis, MM 55435

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Zip Code .5.5/0/ Name of Organization/Agency !! S Fight of 12 weight Spinite Address 226 Traces E. N. & 11.5. Co. (67111-1116 5) 10. N. Turbaut Gity-State St. Parle, 1 MN 319 Code 55 Name of Person to Contact Mending T. Point Position or Title Hall Sites Mires Telephone Number (512/725-713)

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United States Department of the Interior

NATIONAL PARK SERVICE HIBMEST REGION 1709 JACKSON STREET OMANA, REGRASSA 68102

L7421 HVR DCL

SEP 2 : 1978

Nr. Thomas E. Wefmore Edwards and Kelcey, Inc. 4930 West Seventy-Seventh Street Minneapolis, Minnesota 55435

Dear Mr. Vetmore:

The National Park Service has no concern or responsibility related to the bridge work in the Nankato, Minnesota,

flood control project.

Sincerely yours

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SEP 27 1978 EDWINS & MAG

Thomas E. Netmore, P.E. Project Manager Edwards and Kelcey, Inc. Edwards and Kelcey, Inc. Mannespolis, MM 55435

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70755 spoo diz Name of Organization/Agency State Playrung Bycarca Name of Person to Contact . Men Kanstilden Telephone Number 294-2559 City-State St. Paul

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SEP 27 1978 EDWARDS & KELEY.

Thomas E. Wetmore, P.E. Project Manager, Edvards and Kelcey, Inc. 4930 W. 77th Street Minnespolis, MM 55435

Name of Organization/Agency Department of Agriculture/Division Planning Zip Code 25155 Name of Person to Contact Shiriey Putherford Position or Title Management Analyal ... Address 560 State Office Building Telephone Number 612-296-1484 City-State St. Poul. MN

DEPARTMENT OF TRANSPORTATION DEPARTMENT OF INVESTIGATION COMMENT (BY)
UNITED STATES COAST GUARD Second Coast Guard

1430 Olive Street St. Louis, NO 63103 16590/MIMBA/106.4 ietrict EDMINESS & KELCES RECEIVED OCT 5 1978

2 OCT 1978

Pasjact Manager Linesdo & Rainey, Inc. 1939 Mast Seventy Seventh St. Minnespolis, 181 39435 Mr. Thence E. Wetmere, P.S.

Proposed replacement and alteration of Highway 169 Bridges across Missessets and Blue Earth Rivers; Replacement of Chicago & Barthesseters Transportation Bridges across Blue Barth River

Bear Mr. Wetmoret

Places refer to your latter of 12 September 1978 concerning propertions of dealgn nemperatum number 8 for referenced project.

the Barth River in Blue Barth County Himnesota is not considered to be a sarigable wetervey of the United States for bridge administration

Missests Bivar is considered to be a marigable waterway of the United in Lates from its mouth to Big Stone Lake (Hila 329.5), but has been placed in the "advance approval" category from Hila 29.6 to Big Stone Lake (Hila 329.5). Upstream extensions of and tributaries to waterways in the educates approval category are considered to be in the same category.

The advance approval category, as set forth in Title 13, Code of Federal Regulations, Section 113.70, gives the Communicate advance approval to the location and plane of bridges to be constructed across navigable the second to actually navigable them by logs, leg refes, rankosts, cancer and small solotbatt. In such assess, the sistemes provided for high vator stages will be considered adequate to meet the resemble meeds of navigation.

The term "high veter" means the meximum high veter of record or the highest known stage where precise records are not available and include both headwater and bethwater flooding.

A Coset Guerd Bridge Permit will not be required for the proposed work. We trust that you will include in your plans measures to prevent oil spills during construction.

authorizes the Secretary of the Arwy, acting under the Chief of Engineers, to issue permits for the discharge of dasdged or fill material into the angighte variable varietys of the United States. It is suggested that the the the Chief of the United States of the Shipson District, St. Pauly for a determination as to whether such permit is needed for the bridges Section 404 of the Federal Water Pollution Control Act Amendments of 1972 that you propose.

Chief, Bridge Branch by direction of the District Com Sincerely,

Copy to: Coff St. Paul

Thomas E. Metmore, P.E.

ë

Project Manager Edwards and Kelcey, Inc. 4930 W. 77th Street Minnespolis, PN 55435 Compander, Second Coast Guard District (obr) Zip Code 63103 Mr. Stanley THOROUGHAN Chief Bridge Branch 11,30 Olive Street Name of Organization/Agency __ Name of Person to Contact ST. LOUIS, MO. Position or Title City-State Address

314-425-4607

Telephone Number

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Suite 490, hetro Square Building, 7th & Robert St. Name of Organization/Agency Federal Highway Administration \$5101 Area Engineer Dennis Luhrs Thomas E. Wetwore, P.E. Froject Manager Edwards and Kelcey, Inc. 4930 N. 77th Street Maneapoils, NM 55435 Name of Person to Contact Position or Title Address

Zip Code

725-5956 St. Paul, MN

Telephone Number City-State

Thomas E. wetmore, P.E. Project Hanager Edwards and Kelcey, Inc. 4940 Nr. 71th Street Hinnespolls, MN 55435 <u>ن</u>

HIN ... KLLE

.

Name of Organization/Agency Upper Mississippi River Basin Coumission

Name of Person to Contact Jeffrey P. Featherstone Position or Title Associate Program Manager

Address Roum 510 Federal Bldg. Fort Snelling Twin Cities, MW 55111

Telephone Number 725-4690 City-State

Zip Code

Markette 15/3

Frederick A. Mehrens District "A" Engineer Federal Highary Administration

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Thomas E. Wetmore, P.E. Project Manager Eduated and Keley, Inc. 4930 M. 77th Street Minneapolis, MN 55435

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Thomas E. Wetmore, P.E. Project Honager Edwards and Kelcey, Inc. 4930 W. 77th Street Hinneapolis, MM 55435 ë

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Name of Organization/Agency Copportment of Natural Resources

Minnesots Department of Transports ton

Name of Organization/Agency Name of Person to Contact

Programs Condinator / Series Hydre fautile Boad Shating Scientes 557.07 ip Code Address Birision of Malar, 2444, la City-State St. Paul King. Position or Title Federal

Telephone Number 296, 4803

Telephone Number (507) 389-6351

Zip Code 56001

Mankato, Minnesota

City-State Address ___

501 South Victory Drive

Project Manager Dale M. Shaw

Position or Title

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Signed

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Thomas E. Metmore, P.E. Project Manager Edwards and Keicey, Inc. 4930 W. 77th Street Maneapolis, M. 55435

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Name of Organization/Agency Mills Darks PErsonal Dark Comment Zip Code 5570/ Home of Person to Contact Frincis Circuit Position or Title Indiana In Telephone Murber 256-0592 City-State 5 + 1 (/// /// Address ----- Car dail st.

To: Thomas E. Wetmore, P.E.
Project Nanager
Edwards and Keicey, Inc.
4940 W. 77th Street
Minneapolis, MM 55435

Position or Title Section of Water Supply and General Engineering Name of Organization/Agency Minnesota Department of Health Name of Person to Contact Paul 8. Johnson Sentor Engraver-

City-State Minneapolis, Minnesota Telephone Number 296-5331

Address 717 Delaware Street S.E.

Zip Code 55440

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News 616.



United States Department of the Interior RECEIVE. 001 18 1978

EDWARDS & KELCEN MERITAGE CONSERVATION AP D RECREATION SERVICE LAKE CENTRAL RECION . ANN ARBOR, MICHIGAN 48107

October 16, 1978

Mr. Thomas E. Wetmore, P. E. Edusida and Relcay, Inc. 4930 Usas Seventy-seventh Strest Misseapolls, Minnesota 55435

Dear Mr. Vetmore:

This is in response to your request for early coordination and comment concerning the proposal project to raise a railroad bridge over the Blue Earth River and highway bridges over the Blue Earth and Nimesota Rivers in the Manketo area.

Based on the information provided and our general knowledge of the area, it appears that the project would not have significant adverse impaces on anvisonmental resources within our axe of jurisdiction and expertise. We suggest that the potential impact the project may have on cultural resources be determined by contacting the State Matoric Preservation Officer (see attached list).

C-47

This comment is provided as technical assistance and does not satisfy to any obligation under the National Environmental Policy Act with 1 spect to any negative declaration or environmental impact statement which may be prepared.

Sincerely yours

Kikusil H. Ahmh. David N. Shonk Assistant Regional Director

Project Manager
Edwards and Kelcey, Inc.
4930 N. 77th Street
Minnespolis, NN 55435 Thomas E. Wetmore, P.E. . :

10155 Position or Title Supervisery Aydrologist Name of Organization/Agency 11, S. Greelegical Pest Office Bld, Zip Code Name of Person to Contact George City-State S/ Paul, Minny Address Rogg. 702

Telephone Number 725-784/

Signed

Musica, 15/3

Astrony Cauncil on Historic Practical 1822 K Stone NW Whatington, E. C. 2006

October 16, 1978

RECEIVED OCT 2 0 1978 Chinas & Allery

Nr. Themas E. Metmore, P.E. Project Kanager Monecle and Kelery, Inc. 4330 W. 77th Minneson 59435

bear Mr. Vetnere:

Thank you for your letter of September 13, 1979, concerning bridge altereform for flood central along the Blue Borth Hour, which hay after properties included its, or that may be aligible for includes in, the Betteched.

We appreciate your cooperation is furnishing us with this material. We will consuct the Corps of Employers regarding its responsibility to consider the impacts this project way have on historic properties, greatest to Section 106 of the Maximum Historic Preservation Act of 1966.

Myra'f. Merrison Analotes: Miretor Office of Meriev and Ompliance

The Committe a sendel products mad all the Economics Board of the Federal Convenance charged by the Act of Combes 13, The sendelse the Perudent and Compres in the field of Historie Processium.

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Thomas E. Metmore, P.E. Project Manager Edwards and Kalcay, Inc. 4930 N. 77th Street Minneapolis, NN \$5435 ë

Name of Organization/Agency Advisory Council on Historic Preservation Name of Person to Centact Joseph P. Hough orben plenner City-State Washington, D.C. 20065 Address 1522 K Street, NW Position or Title ..

Telephone Mamber 202-254-3967

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APPENDIX D

GLOSSARY OF TERMS

- 1. Standard Project Flood (SPF): The highest water surface resulting from the most severe possible flood that can reasonably occur under the most severe hydrological and climatic conditions.
- 2. Design Memorandum No. 8 Part I (Location Study) and three Draft Supplements II-III-IV to the Final Environmental Impact Statement consists of three volumes: One volume for the TH 169/60 over the Blue Earth River, one for the Chicago and North Western Transportation Company (CNW) bridge over the Blue Earth River, and one for the TH 60 (Main Street) bridge over the Minnesota River.
- 3. Freeboard: The difference in elevation between the highest water surface and top of flood barrier; or in the case of a bridge -- the lowest member of the bridge should clear the design flood stage (usually by three feet) or the highest water surface, for the passage of ice and debris.
- 4. \underline{dBA} : A unit for measuring the volume of a sound. Sound is measured in units of decibels (dB) or more commonly in units of dBA. The "A" weighted scale, found to compare well with human reaction to sound and noise annoyances. An L_{10} represents the noise measurement that is exceeded 10% of the time; L_{50} -- 50% of the time.
- 5. Standard Metropolitan Statistical Area (SMSA): A U.S. Census statistical area comprised of a county containing a city of 50,000 or more, plus any contiguous socially and economically related counties. The concept of an SMSA is to present census-related statistical data.
- 6. Pasquall-Gifford Stability Classification (SC): A measure of the hydrostatic equilibrium of the atmosphere. Stability can be classified into groups denoted by letters of the alphabet. Class D refers to neutral conditions, A-C to unstable, and E-F to stable. Pollutant dispersion is increasingly greater as the stability decreases (i.e., from F toward A).

FLOOD CONTROL

MINNESOTA RIVER, MINNESOTA

MANKATO-NORTH MANKATO-LE HILLIER

DESIGN MEMORANDUM NO. 8 - PART I (Location Study)

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DRAFT SUPPLEMENT II TO THE FINAL ENVIRONMENTAL IMPACT STATEMENT

FOR

BRIDGE RELOCATIONS

CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY BRIDGES

OVER THE BLUE EARTH RIVER BETWEEN

MANKATO AND LE HILLIER

APPENDIX E

BRIDGE LAYOUT PLANS, RATINGS AND PHOTOS

APPENDIX E

BRIDGE LAYOUT PLANS, RATINGS AND PHOTOS

BRIDGE LAYOUT PLANS AND RATINGS

E.1 A detailed inspection of both existing bridges, Bridge No. 423 and M-1605, was conducted in October 1978. Based on the analysis and evaluation of findings, i.e. rustings, and damaged components, each structure was rated as to their operating capacities. Figures E-1 to E-3 illustrate the plan and elevation layouts for both structures, and Tables E-1 and E-2 summarize the rating of each bridge component. Ratings for each bridge were based on components having the lowest value.

PHOTOS

E.2 Photos for the bridge site and surroundings follow.

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FOWARDS

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RATINGS

BRIDGE NO. 423 - WARREN TRUSS

TABLE NO. E-1

		INVENTORY RATING (1)	OPERATING RATING (1)
	COMPONENT		
•	Truss Members (all Spans) (2)		
	Upper Chord		
	U1-U2, U2-U3	E-81	E-126
	Lower Chord		
	LO-L1, L1-L2	E-92	E-142
	L2-L3	E-86	E-121
	Verticals		
	L1-U1, L3-U3 L2-U2	E-68	E-94 *
	Diagonals		
	LO-U1	E-83	E-129
	U1-L2	E-76	E-118
	L2-U3	E-110	E-161
•	Floorbeams (all Spans)		
	FB1	E-87	E-128
	FB2, FB3	E-83	E-124
•	Stringers (all Spans)		
	All Stringers	E-59	E-87
	WIT OFFIRM	** E-85	E-125**
	BRIDGE RATING	** E-68	E-94

⁽¹⁾ Ratings are based on a Coopers E live load with full impact positioned for maximum stress in each member.

⁽²⁾ Truss member ratings are controlled by member capacity unless otherwise noted.

^{*} Not rated since member does not act under live load.

^{**} After repairs, stringers will increase to E-85, and E-125.

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LATTICE TRUSS - BRIDGE NO. M-1605

TABLE NO. E-2

	TABLE NO. E-2	
2010017.17	INVENTORY RATING (1)	OPERATING RATING (1)
COMPONENT		
Truss Members (all Spans) ⁽²⁾		·
Joper Chord		
01-02	E-131	E-198
J2-U3	E-92	E-142
J3-U4	E-85	E-132
J4-U4	E-83	E-129
Lower Chord		
LO-L1	E-106	E-162
L1-1.2	E-92	E-143
L2-L3	E-91	E-142
L3-L4	E-98	E-151
F1-F1	E-88	E-138
Lower Chord (with loss of se	ction)	
LO-L1	E-100	E-154
L1-L2	E-87	E-136
L2-1.3	E-84	E-131
L3-L4	E-91	E-141
L4-L4	E-82	E-129
Vertical		
U1-L1	E-57	E-87
Undamaged Diagonals		
U1-L0	E-135	E-204
U1-L2	E-76	E-102
U1-L3	E-75	E-100
U2-L4	E-73	E-97
U3-L4	E-82	E-120
U3-L1	E-145*	E-200*
41-L0	E-133	E-202
M1-U2	E-123	E-137
U4-L2	E-167	E-244
U4-L3	E-171	E-246
Damaged Diagonals		
U4-L2	E-133	E-194
U4-L3	E-135	E-193
U3-L4 (span 3, south truss)	E-40 (E-82)**	E-59 (E-120)*
U3-L4 (span 3, north truss)	_ :- •	E-119
Floorbeams (all spans)		
FB1, FB2	E-70	E-103
F B 3	E-95	E-140
Stringers (all spans)		
All Stringers	E-80	E-117
BRIDGE RATING	E-40**	E-59**

- (1) Ratings are based on a Coopers E live load with full impact positioned for maximum stress in each member.
- (2) Truss member ratings are controlled by member capacity unless otherwise noted.
- * Rating controlled by Joint Capacity.
 ** After repairs or replacement, ratings increase to E-82 and E-120.



FIGURE E-4



FIGURE E-6



1.-9



VIEW SOUTHWEST FROM VICINITY OF WOODLAND AVENUE UNDERPASS



VIEW NORTHEAST FROM VICINITY OF WOODLAND AVENUE UNDERPASS

FIGURE E-7



TIMBER BENTS AT WEST END LOOKING NORTH



WARREN TRUSS (BR. 423) LOOKING NORTHEAST

FIGURE E-8



CNW BRIDGES LOOKING SOUTHWEST



CNW BRIDGES LOOKING SOUTH

FIGURE E-9